

DuPont Permeation Guide

Tychem

Tyvek

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Caution:

This information is based upon technical data that DuPont believes to be reliable on the date issued. It is subject to revision as additional knowledge and experience are gained. The information set forth herein reflects laboratory performance of fabrics, not complete garments, under controlled conditions. It is intended for informational use by persons having technical skill for evaluation under their specific end-use conditions, at their own discretion and risk.

It is the user's responsibility to determine the level of toxicity and the proper personal protective equipment needed. Anyone intending to use this information should first verify that the garment selected is suitable for the intended use. In many cases, seams and closures have shorter breakthrough times and higher permeation rates than the fabric. If fabric becomes torn, abraded or punctured, or if seams or closures fail, or if attached gloves, visors, etc. are damaged, end user should discontinue use of garment to avoid potential exposure to chemical.

Since conditions of use are outside our control, ***DuPont makes no warranties, express or implied, including, without limitation, no warranties of merchantability or fitness for a particular use and assume no liability in connection with any use of this information.***

This information is not intended as a license to operate under or a recommendation to infringe any patent, trademark or technical information of DuPont or others covering any material or its use.

Warning:

- Tychem® and Tyvek® fabrics should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Only Tychem® ThermoPro, Tychem® Reflector® and Tychem® TK styles 600T/601T (with aluminized outer suit) garments are designed and tested to help reduce burn injury during escape from a flash fire. Users of Tychem® ThermoPro, Tychem® Reflector® and Tychem® TK styles 600T/601T (with aluminized outer suit) garments should not knowingly enter an explosive environment.

- Tychem® garments with attached socks must be worn inside protective outer footwear and are not suitable as outer footwear. These attached socks do not have adequate durability or slip resistance to be worn as the outer foot covering.

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How to Use this Permeation Guide

To Find Permeation Test Results

1. Locate the desired chemical in the Chemical Index (Appendix).
   The Chemical Index is presented in two ways:
   - Alphabetical Index
   - Chemical Abstract System (CAS) Number Index

   For each chemical, the following information is listed:
   - Chemical name
   - CAS number
   - Chemical class and subclass number(s)
   - Synonyms, if applicable
2. Using the chemical name or CAS number, locate the class and subclass (es) of the chemical in the permeation index table.
3. Using the class and subclass, go to the chemical permeation data tables to locate the chemical. The range of fabrics is listed across the top of the table. If testing was done, the permeation data is reported.

Independent Testing

All testing reported in this guide was performed by a third party laboratory.

Permeation data for industrial chemicals is obtained per ASTM F739. Normalized breakthrough times (the time at which the permeation rate exceeds 0.1 µg/cm^2/min) are reported in minutes. All chemicals have been tested between approximately 20°C and 27°C unless otherwise stated. All chemicals have been tested at a concentration of greater than 95% unless otherwise stated.

Chemical warfare agents (Lewisite, Sarin, Soman, Sulfur Mustard, Tabun and VX Nerve Agent) have been tested at 22°C and 50% relative humidity per military standard MIL-STD-282. "Breakthrough time" for chemical warfare agents is defined as the time when the cumulative mass which permeated through the fabric exceeds the limit in MIL-STD-282 [either 1.25 or 4.0 µg/cm^2].

What is Permeation?

Permeation is the absorption, diffusion and desorption of a chemical through a barrier material at the molecular level. Penetration, on the other hand, is the bulk passage of a chemical through a pore or opening in the barrier material.

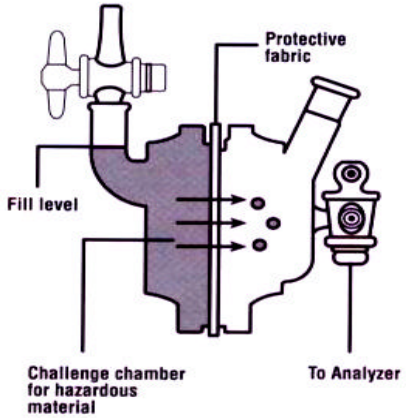
To help you understand the difference between these two mechanisms, consider this example. Have you ever opened a bottle of soda to find out that it was flat? There aren't any holes in the bottle. The liquid is still inside. Why is the soda flat? It's flat because the carbon dioxide that gives soda its fizz has permeated through the bottle over time. If you opened a fresh bottle of soda and did not replace the cap, the carbon dioxide would just escape out of the top of the bottle. That would be penetration.

Permeation tests are best suited for testing liquids and vapors.

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How Permeation Tests Are Conducted

Other than for Chemical Warfare Agents, permeation tests are conducted following ASTM F739 "Test Method for Resistance of Protective Clothing Materials to Permeation by Liquids and Gases." A swatch of test fabric is inserted into a special test cell, with the outside surface of the fabric toward the challenge chamber, thus exposing it to a challenge chemical. The inside surface of the fabric is toward the sampling chamber. If the chemical moves through the fabric and is detected on the inside surface of the fabric, it is said to have permeated through the fabric.



ASTM F739 Test Cell

Definitions of Key Terms for ASTM F739

Breakthough time: In permeation testing, the actual breakthrough time is the length of time it takes for a challenge chemical to permeate the fabric being tested. It is measured from the point of initial contact of the challenge chemical with the outside surface of the fabric to the time that the challenge chemical is detected on the inside of the fabric. Sensitive analytical equipment is often used to measure the amount of chemical permeating the fabric.

Normalized, or sometimes called "standardized" breakthrough time, is a measure of the elapsed time from initial contact with the challenge chemical until the chemical permeates the fabric at a rate of 0.1 ´g /cm²/min. This is defined in ASTM F739 test method. Normalized breakthrough times eliminate biased results due to differences in the sensitivity of the detection equipment and are thus the industry standard measure of breakthrough time. This DuPont Permeation Guide reports normalized breakthrough times using the 0.1 ´g/cm²/min criteria.

A normalized breakthrough time of >480 minutes does not always mean that there was no chemical permeation; it means that the rate of permeation did not exceed 0.1 ´g/cm²/min during the 8 hour test. If the permeation rate exceeds 0.1 ´g /cm²/min in the first 10 minutes of testing, DuPont chooses to report the breakthrough time as "immediate" (imm.).

PLEASE NOTE: In Europe, normalized breakthrough times are based on a permeation rate of 1.0 ´g/cm²/min. This is 10 times less sensitive than the basis used in North America.

Physical phase: The phase of the challenge chemical during the test: solid-S, liquid-L, gas-G.

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Chemical Class & Subclass Listing*

*Partial list based on ASTM F1186. A complete copy of ASTM F1186 may be purchased from ASTM (www.astm.org).

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ASTM F1001 List of Challenge Chemicals (Permeation Test Method ASTM F739)

Sub-class	Chemical Name	CAS Number	Phase	Normalized Breakthrough Time (Minutes)									
				Tychem® 2000	Tyvek® 800	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
100	Acetic acid (10%)	64-19-7	Liquid		imm								
130	Dimethyl formamide, N,N-	68-12-2	Liquid	imm			90	>480	>480	>480	>480	>480	>480
140	Diethyl amine	109-89-7	Liquid	imm			15	>480	>480	>480	>480	>480	>480
140	Ethyl ethanamine, N-	109-89-7	Liquid	imm			15	>480	>480	>480	>480	>480	>480
220	Acetic acid ethyl ester	141-78-6	Liquid	imm			imm	>480	>480	>480	>480	>480	>480
220	Ethyl acetate	141-78-6	Liquid	imm			imm	>480	>480	>480	>480	>480	>480
260	Dichloro methane	75-09-2	Liquid	imm			imm	imm	imm	imm	imm	>480	>480
260	Dichloro methane (10.000 ppm)	75-09-2	Vapor						52	52			
260	Dichloro methane (1000 ppm)	75-09-2	Vapor						>480	>480			
260	Methyl chloride (gaseous)	74-87-3	Vapor	imm			>480	>480	>480	>480	>480	>480	>480
260	Methylene chloride	75-09-2	Liquid	imm			imm	imm	imm	imm	imm	>480	>480
260	Methylene chloride (10.000 ppm)	75-09-2	Vapor						52	52			
260	Methylene chloride (1000 ppm)	75-09-2	Vapor						>480	>480			
260	Ethylene tetrachloride	127-18-4	Liquid	imm			imm	>480	>480	>480	>480	>480	>480
260	Tetrachloro ethylene, 1,1,2,2-	127-18-4	Liquid	imm			imm	>480	>480	>480	>480	>480	>480
270	Epoxy ethane (gaseous)	75-21-8	Vapor	imm			imm	12	126	118	>480	>480	>480
270	Ethylene oxide (gaseous)	75-21-8	Vapor	imm			imm	12	126	118	>480	>480	>480
270	Tetrahydrofuran	109-99-9	Liquid	imm			imm	>480	>480	>480	>480	>480	>480
290	Hexane, n-	110-54-3	Liquid	imm			imm	>480	>480	>480	>480	>480	>480
290	Methyl benzol	108-88-3	Liquid	imm			imm	>480	>480	>480	>480	>480	>480
290	Toluene	108-88-3	Liquid	imm			imm	>480	>480	>480	>480	>480	>480
290	Butadiene, 1,3- (gaseous)	106-99-0	Vapor	imm		imm	>480	>480	>480	>480	>480	>480	>480
290	Vinyl ethylene (gaseous)	106-99-0	Vapor	imm		imm	>480	>480	>480	>480	>480	>480	>480
310	Methanol	67-56-1	Liquid	imm			>480	imm	117	117	117	>480	>480
330	Chlorine (gaseous)	7782-50-5	Vapor	imm			>480	imm	>480	>480	>480	>480	>480
350	Ammonia (gaseous)	7664-41-7	Vapor	imm		imm	26	imm	20	20	90	>480	>480
350	Chlorine (gaseous)	7782-50-5	Vapor	imm			>480	imm	>480	>480	>480	>480	>480
350	Hydrogen chloride (gaseous)	7647-01-0	Vapor	imm			>480	>480	>480	392	>480	>480	>480
370	Hydrogen chloride (gaseous)	7647-01-0	Vapor	imm			>480	>480	>480	392	>480	>480	>480
370	Sulfuric acid (>95%)	7664-93-9	Liquid	>480		>480	>480	>480	>480	>480	50	>480	>480
380	Ammonia (gaseous)	7664-41-7	Vapor	imm		imm	26	imm	20	20	90	>480	>480
390	Acetone	67-64-1	Liquid	imm		imm	13	462	>480	>480	>480	>480	>480
390	Dimethyl ketal	67-64-1	Liquid	imm		imm	13	462	>480	>480	>480	>480	>480
390	Dimethyl ketone	67-64-1	Liquid	imm		imm	13	462	>480	>480	>480	>480	>480
390	Ketone propane	67-64-1	Liquid	imm		imm	13	462	>480	>480	>480	>480	>480
390	Methyl acetyl	67-64-1	Liquid	imm		imm	13	462	>480	>480	>480	>480	>480
390	Methyl ketone	67-64-1	Liquid	imm		imm	13	462	>480	>480	>480	>480	>480
390	Propan -2-one	67-64-1	Liquid	imm		imm	13	462	>480	>480	>480	>480	>480
390	Pyroacetic ether	67-64-1	Liquid	imm		imm	13	462	>480	>480	>480	>480	>480

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Sub-class	Chemical Name	CAS Number	Phase	Normalized Breakthrough Time (Minutes)									
				Tychem® 2000	Tyvek® 800	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
430	Acetonitrile	75-05-8	Liquid	imm		imm	60	imm	131	131	>480	>480	>480
430	Cyanomethane	75-05-8	Liquid	imm		imm	60	imm	131	131	>480	>480	>480
430	Ethane nitrile	75-05-8	Liquid	imm		imm	60	imm	131	131	>480	>480	>480
430	Ethyl nitrile	75-05-8	Liquid	imm		imm	60	imm	131	131	>480	>480	>480
430	Methyl cyanide	75-05-8	Liquid	imm		imm	60	imm	131	131	>480	>480	>480
440	Nitro benzene	98-95-3	Liquid	imm			59	>480	>480	>480	>480	>480	>480
500	Carbon disulfide	75-15-0	Liquid	imm		imm	imm	imm	>480	>480	>480	>480	>480

> = greater than imm. = immediate (<10 minutes) {empty} = not tested L = Liquid G = Gas S = Solid

* Actual breakthrough time; normalized breakthrough time is not available.

** Solid tested, vapor phase permeation measured.

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
100																	
	102																
		Acetic acid (10%)	64-19-7	Liquid				imm									
		Acetic acid (2%)	64-19-7	Liquid				imm									
		Acetic acid (30%)	64-19-7	Liquid		imm	imm	imm									
		Acetic acid (5%)	64-19-7	Liquid				imm									
		Acetic acid (>95%)	64-19-7	Liquid	imm						>480	34	>480	>480	>480	>480	>480
		Acroleic acid	79-10-7	Liquid	imm						>480		>480	>480	>480	>480	>480
		Acrylic acid	79-10-7	Liquid	imm						>480		>480	>480	>480	>480	>480
		Butyric Acid	107-92-6	Liquid									>480	>480			
		Ethyl hexanoic acid	149-57-5	Liquid									>480	>480			
		Ethylene carboxylic acid	79-10-7	Liquid	imm						>480		>480	>480	>480	>480	>480
		Formic acid (30%)	64-18-6	Liquid		imm	imm										
		Formic acid (50%)	64-18-6	Liquid									>480	>480	>480		
		Formic acid (88%)	64-18-6	Liquid							>480						
		Formic acid (>95%)	64-18-6	Liquid								>480	260	260	260	>480	>480
		Methacrylic acid	79-41-4	Liquid								81	>480	>480	>480	>480	>480
		Methyl propenoic acid, 2-	79-41-4	Liquid								81	>480	>480	>480	>480	>480
		Propanoic acid	79-09-4	Liquid									>480	>480			
		Propene acid	79-10-7	Liquid	imm						>480		>480	>480	>480	>480	>480
	103																
		Chloro acetic acid (80%)	79-11-8	Liquid	>480						>480	>480	>480	>480	>480	>480	>480
		Glycolic acid (sat)	79-14-1	Liquid												>480	>480
		Hydroxy acetic acid (sat)	79-14-1	Liquid												>480	>480
		Mercapto acetic acid	68-11-1	Liquid								>480	>480	>480	>480	>480	>480
		Thioglycolic acid	68-11-1	Liquid								>480	>480	>480	>480	>480	>480
		Trichloro acetic acid (sat)	76-03-9	Liquid									>480	>480	>480		
		Trifluoro acetic acid	76-05-1	Liquid							>480		>480	>480	>480	>480	
	104																
		Citric acid (50%)	77-92-9	Liquid								>480					
		Citric acid (sat)	77-92-9	Liquid									>480	>480	>480		
		Ethane dioic acid (10.5%)	144-62-7	Liquid												>480	>480
		Ethane dioic acid (sat)	144-62-7	Liquid								>480	>480	>480	>480		
		Hydroxy 1,2,3-propanetricarboxylic acid, 2- (50%)	77-92-9	Liquid								>480					
		Hydroxy 1,2,3-															

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		propanetricarboxylic acid, 2-(sat)	77-92-9	Liquid									>480	>480	>480		
		Oxalic acid (10.5%)	144-62-7	Liquid												>480	>480
		Oxalic acid (sat)	144-62-7	Liquid								>480	>480	>480	>480		
110																	
	110																
		Isopropyl bromoacetate (>95%)	29921-57-1	Liquid									>480	>480			
	111																
		Acetic chloride	75-36-5	Liquid							39*/63	>480	>480	>480	>480	>480	>480
		Acetyl chloride	75-36-5	Liquid							39*/63	>480	>480	>480	>480	>480	>480
		Acryloyl Chloride	814-68-6	Liquid							imm	55	334	334	334		
		Chloro acetyl chloride	79-04-9	Liquid							120	77				160	160
		Dichloro acetyl chloride	79-36-7	Liquid									160	160	160	100	>480
		Ethanoyl chloride	75-36-5	Liquid							39*/63	>480	>480	>480	>480	>480	>480
		Perfluoro 2-propoxy propionyl fluoride	2062-98-8	Liquid												>480	>480
	112																
		Benzene carbonyl chloride	98-88-4	Liquid								>480	>480	>480	>480	>480	>480
		Benzoyl chloride	98-88-4	Liquid								>480	>480	>480	>480	>480	>480
		Isophthaloyldichloride (45 °C, molten)	99-63-8	Liquid									>480	>480	>480		
	113																
		Benzyl chloro formate	501-53-1	Liquid								>480					
		Butylchloroformate	592-34-7	Liquid									>480	>480			
		Diphosgene	503-38-8	Liquid									>480	>480			
		Ethylchloroformate	541-41-3	Liquid									>480	>480			
		Methyl chloro formate	79-22-1	Liquid									204*/308	204*/308	204*/308	>480	>480
		Octyl chlor formiate	7452-59-7	Liquid									>480	>480			
		Propychloroformate	109-61-5	Liquid									>480	>480			
120																	
	121																
		Acetaldehyde	75-07-0	Liquid								19	imm	imm	>480	>480	>480

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					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Acrolein	107-02-8	Liquid								25*/178	75*/101	75*/101	75*/101	>480	>480
		Acrolein (10 g/m^2)	107-02-8	Liquid									>480	>480	>480		
		Acrolein (90%)	107-02-8	Liquid							24						
		Butanal, n-	123-72-8	Liquid	imm						41		>480	>480		>480	>480
		Butenal, 2-	123-73-9	Liquid							34		147	147		>480	>480
		Butyraldehyde, n-	123-72-8	Liquid	imm						41		>480	>480		>480	>480
		Croton aldehyde	123-73-9	Liquid							34		147	147		>480	>480
		Ethane diol dipropanoate, 1,2-	123-73-9	Liquid							34		147	147		>480	>480
		Formaldehyde (10%)	50-00-0	Liquid				imm									
		Formaldehyde (100 ppm)	50-00-0	Vapor												>480	>480
		Formaldehyde (37%)	50-00-0	Liquid							>480	>480	>480	>480	>480		
		Formalin (10%)	50-00-0	Liquid				imm									
		Formalin (100 ppm)	50-00-0	Vapor												>480	>480
		Formalin (3.7%, 1-1.5% Methanol)	50-00-0	Liquid	>480												
		Formalin (37% (10-15% Methanol))	50-00-0	Liquid	imm						>480	>480	>480	>480	>480	>480	>480
		Formalin (37%)	50-00-0	Liquid							>480	>480	>480	>480	>480		
		Glutaral (5%)	111-30-8	Liquid	>480											>480	>480
		Glutaral (50%)	111-30-8	Liquid							>480		170	170	170	>480	>480
		Glutaraldehyde (5%)	111-30-8	Liquid	>480											>480	>480
		Glutaraldehyde (50%)	111-30-8	Liquid							>480		170	170	170	>480	>480
		Methyl acrolein	123-73-9	Liquid							34		147	147		>480	>480
		Pentanedial, 1,5- (5%)	111-30-8	Liquid	>480											>480	>480
		Pentanedial, 1,5- (50%)	111-30-8	Liquid							>480		170	170	170	>480	>480
		Prop-2-en-1-al	107-02-8	Liquid								25*/178	75*/101	75*/101	75*/101	>480	>480
		Prop-2-en-1-al (10 g/m^2)	107-02-8	Liquid									>480	>480	>480		

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					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Prop-2-en-1-al (90%)	107-02-8	Liquid							24						
		Propylene aldehyde	123-73-9	Liquid							34		147	147		>480	>480
	122																
		Benzaldehyde	100-52-7	Liquid									>480	>480			
130																	
	132																
		Cyanamide (50%)	420-04-2	Liquid									nm	nm			
		Dimethyl acetamide N,N-	127-19-5	Liquid						imm	96	>480	>480	>480	>480	>480	>480
		Dimethyl acetamide N,N- (30%)	127-19-5	Liquid	>480												
		Dimethyl acetamide N,N- (8%)	127-19-5	Liquid	>480					>480							
		Dimethyl formamide, N,N-	68-12-2	Liquid	imm						90	>480	>480	>480	>480	>480	>480
		Methyl 2-pyrrolidone, N-	872-50-4	Liquid	imm.						101		>480	>480	>480	>480	>480
		Methyl formamide, N-	123-39-7	Liquid								>480	>480	>480	>480		
	135																
		Acrylamide (50%)	79-06-1	Liquid							>480		>480	>480	>480	>480	>480
		Acrylicamide (50%)	79-06-1	Liquid							>480		>480	>480	>480	>480	>480
		Propenamide (50%)	79-06-1	Liquid							>480		>480	>480	>480	>480	>480
140																	
	141																
		Amino ethanol, 2-	141-43-5	Liquid								>480	>480	>480	>480	>480	>480
		Amino ethylpiperazine	140-31-8	Liquid							>480	>480	>480	>480	>480	>480	>480
		Amino propane, 2-	75-31-0	Liquid								15	>480	>480	>480	>480	>480
		Butyl amine	109-73-9	Liquid								>480	200	200	200	>480	>480
		Diisopropylethylamine (DIPEA)	7087-68-5	Liquid								>480			>480		
		Ethanol amine	141-43-5	Liquid								>480	>480	>480	>480	>480	>480
		Ethyl amine (15 °C, liquid)	75-04-7	Liquid												361	>480
		Isopropyl amine	75-31-0	Liquid								15	>480	>480	>480	>480	>480
		Methyl amine (40%)	74-89-5	Liquid								140				261	261

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Chemical Permeation Data Tables

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Methyl amine (50%)	74-89-5	Liquid												232	232
		Methyl amine (gaseous)	74-89-5	Vapor									>480	>480	>480	105	>480
		Propyl amine, n-	107-10-8	Liquid								100	16*/21	16*/21	16*/21		
		Tetraethylene pentamine	112-57-2	Liquid							>480	>480	>480	>480	>480	>480	>480
		Triethylentetramine (60%)	112-24-3	Liquid							>480	>480	>480	>480	>480	>480	>480
	142																
		Amino ethylethanolamine	111-41-1	Liquid							imm	>480	>480	>480	>480	>480	>480
		Amino ethylethanolamine (60%)	111-41-1	Liquid							>480	>480	>480	>480	>480	>480	>480
		Diethanolamine	111-42-2	Liquid								>480				>480	
		Diethyl amine	109-89-7	Liquid	imm						15	>480	>480	>480	>480	>480	>480
		Dimethyl amine	124-40-3	Vapor								>480	>480	>480	>480		>480
		Ethyl ethanamine, N-	109-89-7	Liquid	imm						15	>480	>480	>480	>480	>480	>480
	143																
		Amino 2-methylpropane, 2-	75-64-9	Liquid												>480	>480
		Butyl amine, tert-	75-64-9	Liquid												>480	>480
		Diethyl ethanamine, N,N-	121-44-8	Liquid							12*/22		>480	>480	>480	>480	>480
		Tributyl amine (95%)	102-82-9	Liquid								>480	>480	>480	>480		
		Triethyl amine	121-44-8	Liquid							12*/22		>480	>480	>480	>480	>480
		Trimethyl amine	75-50-3	Vapor													>480
		Trimethyl aminomethane	75-64-9	Liquid												>480	>480
		Tripropyl amine	102-69-2	Liquid												>480	>480
	145																
		Amino 3,4-dichlorobenzene, 1-	95-76-1	Solid												>480	>480
		Amino 3,4-dichlorobenzene, 1- (70 °C, molten)	95-76-1	Liquid							imm					216*/284	216*/284
		Amino benzene	62-53-3	Liquid	imm						>480	320	>480	>480	>480	>480	>480
		Amino diphenyl, 4- (1 mg/ml in Methanol)	92-67-1	Liquid							>480	>480	>480	>480	>480	>480	>480
		Anilin, 4-Trifluoromethoxy-	461-82-5	Liquid									>480	>480	>480		

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					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Aniline	62-53-3	Liquid	imm						>480	320	>480	>480	>480	>480	>480
		Benzenamine	62-53-3	Liquid	imm						>480	320	>480	>480	>480	>480	>480
		Benzidine (25% in Methanol)	92-87-5	Liquid												>480	>480
		Benzidine (75% in Methanol)	92-87-5	Liquid													>480
		Biphenyl 4,4'-diamine, 1,1'- (25% in Methanol)	92-87-5	Liquid												>480	>480
		Biphenyl 4,4'-diamine, 1,1'- (75% in Methanol)	92-87-5	Liquid													>480
		Chloro aniline, p-	106-47-8	Solid												>480	>480
		Chloro aniline, p- (70 °C, molten)	106-47-8	Liquid							imm		imm	imm	imm	272*/323	272*/323
		Chloro benzenamine, 4-	106-47-8	Solid												>480	>480
		Chloro benzenamine, 4- (70 °C, molten)	106-47-8	Liquid							imm		imm	imm	imm	272*/323	272*/323
		Diaminobiphenyl, 4,4'- (25% in Methanol)	92-87-5	Liquid												>480	>480
		Diaminobiphenyl, 4,4'- (75% in Methanol)	92-87-5	Liquid													>480
		Diaminodiphenyl, p- (25% in Methanol)	92-87-5	Liquid												>480	>480
		Diaminodiphenyl, p- (75% in Methanol)	92-87-5	Liquid													>480
		Diaminodiphenylmethane, 4,4'-	101-77-9	Liquid													>480
		Diaminodiphenylmethane, 4,4'- (15% in Methyl Ethyl Ketone)	101-77-9	Liquid												>480	>480
		Dichloro aniline, 3,4-	95-76-1	Solid												>480	>480
		Dichloro aniline, 3,4- (70 °C, molten)	95-76-1	Liquid							imm					216*/284	216*/284
		Diethyl m-toluidine, N,N-	91-67-8	Liquid							>480					>480	
		Methyl aniline, o-	95-53-4	Liquid							>480		>480	>480	>480	>480	>480
		Methylene dianiline	101-77-9	Liquid													>480
		Methylene dianiline (15% in Methyl Ethyl Ketone)	101-77-9	Liquid												>480	>480
		Phenyl amine	62-53-3	Liquid	imm						>480	320	>480	>480	>480	>480	>480
		Toluidine, m-	108-44-1	Liquid							>480					>480	
		Toluidine, o-	95-53-4	Liquid							>480		>480	>480	>480	>480	>480
		Xylidine, 2,4-	95-68-1	Liquid									>480	>480			

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Benzyl methylamine, N-	103-67-3	Liquid									>480	>480	>480		
		Diethyl aniline crude	91-66-7	Liquid							>480					>480	
		Diethyl aniline, N,N-	91-66-7	Liquid								>480					>480
		Dimethyl aniline, N,N-	121-69-7	Liquid								imm	>480	>480	>480	>480	>480
		Dimethyl phenylamine, N,N-	121-69-7	Liquid								imm	>480	>480	>480	>480	>480
		Methyl benzylamine, N-	103-67-3	Liquid									>480	>480	>480		
	148																
		Amino ethylethanolamine	111-41-1	Liquid							imm	>480	>480	>480	>480	>480	>480
		Amino ethylethanolamine (60%)	111-41-1	Liquid							>480	>480	>480	>480	>480	>480	>480
		Amino ethylpiperazine	140-31-8	Liquid							>480	>480	>480	>480	>480	>480	>480
		Diaminoethane, 1,2-	107-15-3	Liquid	>480						>480	>480	>480	>480	>480	>480	>480
		Diethylene triamine	111-40-0	Liquid							imm*/321	>480	>480	>480	>480	>480	>480
		Dytek® A	15520-10-2	Liquid								>480	>480	>480	>480		
		Ethylene diamine	107-15-3	Liquid	>480						>480	>480	>480	>480	>480	>480	>480
		Hexamethylene diamine (45 °C, molten)	124-09-4	Liquid									>480	>480	>480	>480	>480
		Hexamethylene diamine (50 °C, molten)	124-09-4	Liquid							80	45				80	
		Methylen Isocyclohexylamine, 4,4- (40 °C)	1761-71-3	Liquid									>480	>480			
		Methylen Isocyclohexylamine, 4,4- (50 °C, molten)	1761-71-3	Liquid							>480						
		Tetraethylene pentamine	112-57-2	Liquid							>480	>480	>480	>480	>480	>480	>480
		Tetramethylethylene diamine (TMEDA)	110-18-9	Liquid								>480			>480		
		Tributyl amine (95%)	102-82-9	Liquid								>480	>480	>480	>480		
		Triethylentetramine (60%)	112-24-3	Liquid							>480	>480	>480	>480	>480	>480	>480
	149																
		Benzidine (25% in Methanol)	92-87-5	Liquid												>480	>480
		Benzidine (75% in Methanol)	92-87-5	Liquid													>480

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Chemical Permeation Data Tables

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Biphenyl 4,4'-diamine, 1,1'- (25% in Methanol)	92-87-5	Liquid												>480	>480
		Biphenyl 4,4'-diamine, 1,1'- (75% in Methanol)	92-87-5	Liquid													>480
		Diaminobiphenyl, 4,4'- (25% in Methanol)	92-87-5	Liquid												>480	>480
		Diaminobiphenyl, 4,4'- (75% in Methanol)	92-87-5	Liquid													>480
		Diaminodiphenyl, p- (25% in Methanol)	92-87-5	Liquid												>480	>480
		Diaminodiphenyl, p- (75% in Methanol)	92-87-5	Liquid													>480
		Diaminodiphenylmethane, 4,4'-	101-77-9	Liquid													>480
		Diaminodiphenylmethane, 4,4'- (15% in Methyl Ethyl Ketone)	101-77-9	Liquid												>480	>480
		Dichloro -4,4'-methylenedianiline, 2,2'- (sat in Methanol)	101-14-4	Liquid							>480					>480	>480
		Methylene bis(2-Chloroaniline), 4,4- (sat in Methanol)	101-14-4	Liquid							>480					>480	>480
		Methylene dianiline	101-77-9	Liquid													>480
		Methylene dianiline (15% in Methyl Ethyl Ketone)	101-77-9	Liquid												>480	>480
150																	
	150																
		Butanone oxime, 2-	96-29-7	Liquid							>480		>480	>480	>480	>480	>480
		Methyl ethyl ketoxime	96-29-7	Liquid							>480		>480	>480	>480	>480	>480
		Tetraethyl ammonium hydroxide (35%)	77-98-5	Liquid							>480					>480	
160																	
	161																
		Acetic anhydride	108-24-7	Liquid							12*/48	>480	>480	>480	>480	>480	>480
		Maleic anhydride (66 °C, molten)	108-31-6	Liquid							13		22	22			
210																	
	211																
		Cyclo hexyl isocanyte	3173-53-3	Liquid							36*/54					36*/54	
		Hexamethylene diisocyanate	822-06-0	Liquid	>480						>480	>480	>480	>480	>480	>480	>480
			624-83-														

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Chemical Permeation Data Tables

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Methyl isocyanate	9	Liquid							imm	12	imm	imm	imm	>480	>480
	212																
		Diphenyl methane diisocyanate, 4,4'-	101-68-8	Solid												>480	>480
		Diphenyl methane diisocyanate, 4,4'- (50 °C, molten)	101-68-8	Liquid	>480						>480	>480	>480	>480	>480	>480	>480
		Methylene diphenyl diisocyanate, 4,4'-	101-68-8	Solid												>480	>480
		Methylene diphenyl diisocyanate, 4,4'- (50 °C, molten)	101-68-8	Liquid	>480						>480	>480	>480	>480	>480	>480	>480
		Paraphenylene diisocyanate (PPDI) crude	104-49-4	Liquid												>480	>480
		Polymethylene polyphenyle isocyanate (p-MDI)	9016-87-9	Liquid	>480						>480	>480	>480	>480	>480	>480	>480
		Toluene diisocyanate, 1,3-	26471-62-5	Liquid												>480	>480
		Toluene diisocyanate, 2,4-	584-84-9	Liquid	imm						>480	>480	>480	>480	>480	>480	>480
		Toluene diisocyanate, 2,4- (80%)	584-84-9	Liquid	60						>480	>480	>480	>480	>480	>480	>480
220																	
	220																
		Dimethyl malonate	108-59-8	Vapor									>480	>480			
		Dimethyl propandioate	108-59-8	Vapor									>480	>480			
	221																
		Butylchloroformate	592-34-7	Liquid									>480	>480			
		Diphosgene	503-38-8	Liquid									>480	>480			
		Ethylchloroformate	541-41-3	Liquid									>480	>480			
		Hexyl chloro formate, 2-	6092-54-2	Liquid									>480	>480			
		Octyl chlor formiate	7452-59-7	Liquid									>480	>480			
		Phenyl chlor formiate	1885-14-9	Liquid									>480	>480			
		Propychloroformate	109-61-5	Liquid									>480	>480			
	222																
		Acetic acid ethenyl ester	108-05-4	Liquid							24	>480	>480	>480	>480	>480	>480

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Acetic acid ethyl ester	141-78-6	Liquid	imm						imm	>480	>480	>480	>480	>480	>480
		Acetic acid pentyl ester	628-63-7	Liquid								>480	>480	>480	>480	>480	>480
		Amyl acetate, n-	628-63-7	Liquid								>480	>480	>480	>480	>480	>480
		Amyl ester acetic acid	628-63-7	Liquid								>480	>480	>480	>480	>480	>480
		Butyl acetate, n-	123-86-4	Liquid								>480	>480	>480	>480	>480	>480
		Chloroacetic ethylester	105-39-5	Liquid									>480	>480			
		Chloroacetic ethylester (75% in Ethanol)	105-39-5	Liquid													
		Ethyl acetate	141-78-6	Liquid	imm						imm	>480	>480	>480	>480	>480	>480
		Isopropyl Acetate	108-21-4	Liquid									>480				
		Isopropyl bromoacetate (>95%)	29921-57-1	Liquid									>480	>480			
		Methyl -2-pyridyl acetate	1658-42-0	Liquid									>480	>480			
		Pentyl acetate	628-63-7	Liquid								>480	>480	>480	>480	>480	>480
		Vinyl acetate	108-05-4	Liquid							24	>480	>480	>480	>480	>480	>480
	223																
		Acrylic acid ethyl ester	140-88-5	Liquid									imm*/162	imm*/162		14	>480
		Acrylic acid n-butyl ester	141-32-2	Liquid							>480		>480	>480	>480	51	>480
		Butyl acrylate, n-	141-32-2	Liquid							>480		>480	>480	>480	51	>480
		Ethyl acrylate	140-88-5	Liquid									imm*/162	imm*/162		14	>480
		Ethylene glycol acrylate	818-61-1	Liquid								>480					
		Methyl 2-methyl-2-propenoate	80-62-6	Liquid							23		imm*/53	imm*/53	imm*/53	>480	>480
		Methyl acrylate	96-33-3	Liquid									>480	>480	>480	>480	>480
		Methyl methacrylate	80-62-6	Liquid							23		imm*/53	imm*/53	imm*/53	>480	>480
		Propenoic acid butyl ester, 2-	141-32-2	Liquid							>480		>480	>480	>480	51	>480
	224																
			109-43-														

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		Dibutyl sebacate	3	Liquid									nm	nm	nm		
		Diisopropyl L-tartrate	2217-15-4	Liquid									>480				
		Dimethyl fumarate (27 °C, solid)	624-49-7	Solid									nm	nm			
		Dimethyl fumarate (37 °C, solid)	624-49-7	Solid									nm	nm			
		Dimethyl maleate	624-48-6	Liquid							>480	>480				>480	
		Dimethyl malonate	108-59-8	Vapor									>480	>480			
		Dimethyl propandioate	108-59-8	Vapor									>480	>480			
	226																
		DEHP	117-81-7	Liquid								>480				>480	>480
		Dibutyl 1,2-benzenedicarboxylate	84-74-2	Liquid									nm	nm	nm		
		Dibutyl phthalate	84-74-2	Liquid									nm	nm	nm		
		Diethyl hexyl phthalate	117-81-7	Liquid								>480				>480	>480
		Methyl salicylate	119-36-8	Liquid	<15						>480					>480	
230																	
	233																
		Dimethyl Carbonate (DMC)	616-38-6	Liquid							35		>480				
		Ethyl methyl carbonate (EMC)	623-53-0	Liquid							25		>480				
		Methomyl (29%)	16752-77-5	Liquid												>480	>480
240																	
	241																
		2,5-Dimethoxytetrahydrofuran	696-59-3	Liquid									>480				
		2-Methyltetrahydrofuran	96-47-9	Liquid									>480				
		Butyl ether, n-	142-96-1	Liquid								117	223*/285	223*/285	>480	>480	>480
		Chloro methyl methyl ether	107-30-2	Liquid									imm*/37	imm*/37	imm*/37	>480	>480
		Dichloro ethyl ether	111-44-4	Liquid								>480	>480	>480	>480	>480	>480
		Diethyl ether	60-29-7	Liquid							imm	>480	>480	>480	>480	>480	>480

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					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Dimethyl ether	115-10-6	Vapor													>480
		Ethyl ether	60-29-7	Liquid							imm	>480	>480	>480	>480	>480	>480
		Methoxy 2-methylpropane, 2-	1634-04-4	Liquid							>480	>480	>480	>480	>480	>480	>480
		Methoxy chloromethane	107-30-2	Liquid									imm*/37	imm*/37	imm*/37	>480	>480
		Methyl tert-butyl ether	1634-04-4	Liquid							>480	>480	>480	>480	>480	>480	>480
		Perfluoro 2-propoxy propionyl fluoride	2062-98-8	Liquid												>480	>480
	245																
		2-(2-Butoxyethoxy) ethanol	112-34-5	Liquid									>480	>480	>480		
		2-(2-Ethoxyethoxy) ethanol	111-90-0	Liquid							>480					>480	
		Acetic acid 2 ethoxy ethyl ester	111-15-9	Liquid							116*/238	>480	>480	>480	>480	>480	>480
		Acetic acid 2 methoxy ethyl ester	110-49-6	Liquid							>480	>480	>480	>480	>480	>480	>480
		Butoxy ethanol, 2-	111-76-2	Liquid							>480		>480	>480	>480	>480	
		Cellosolve acetate	110-80-5	Liquid							>480	>480	>480	>480	>480	>480	>480
		Diethylene glycol monobutyl ether	112-34-5	Liquid									>480	>480	>480		
		Ethoxy ethanol, 2-	110-80-5	Liquid							>480	>480	>480	>480	>480	>480	>480
		Ethoxy ethylacetat	111-15-9	Liquid							116*/238	>480	>480	>480	>480	>480	>480
		Ethyl Cellosolve®	110-80-5	Liquid							>480	>480	>480	>480	>480	>480	>480
		Ethyl glycol acetate	111-15-9	Liquid							116*/238	>480	>480	>480	>480	>480	>480
		Ethylene glycol mono ethyl ether acetate	111-15-9	Liquid							116*/238	>480	>480	>480	>480	>480	>480
		Ethylene glycol monobutyl ether	111-76-2	Liquid							>480		>480	>480	>480	>480	
		Ethylene glycol monoethyl ether	110-80-5	Liquid							>480	>480	>480	>480	>480	>480	>480
		Ethylene glycol monomethyl ether	109-86-4	Liquid							>480	405	>480	>480	>480	>480	>480
		Ethylene glycol monomethyl ether acetate	110-49-6	Liquid							>480	>480	>480	>480	>480	>480	>480

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Chemical Permeation Data Tables

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Methoxy ethanol, 2	109-86-4	Liquid							>480	405	>480	>480	>480	>480	>480
		Methoxy ethylacetate, 2-	110-49-6	Liquid							>480	>480	>480	>480	>480	>480	>480
		Polyethylene glycol dimethyl ether	24991-55-7	Liquid											>480		
260																	
	260																
		Butylchloroformate	592-34-7	Liquid									>480	>480			
		Diphosgene	503-38-8	Liquid									>480	>480			
		Ethylchloroformate	541-41-3	Liquid									>480	>480			
		Isopropyl bromoacetate (>95%)	29921-57-1	Liquid									>480	>480			
		Propychloroformate	109-61-5	Liquid									>480	>480			
	261																
		1-Bromobutane	109-65-9	Liquid									>480				
		Bromo methane	74-83-9	Vapor							>480					>480	>480
		Carbon tetrachloride	56-23-5	Liquid								>480	imm*/11	imm*/11	imm*/11	>480	>480
		Carbon tetrachloride (1000 ppm)	56-23-5	Vapor									>480	>480			
		Carbon tetrafluoride	75-73-0	Vapor												>480	>480
		Chlor trinitromethan	76-06-2	Liquid									>480	>480	>480		
		Chlordane (44%)	57-74-9	Liquid								>480					
		Chlordane (60-75%)	57-74-9	Liquid												>480	>480
		Chloro 2,3-epoxy propane, 1-	106-89-8	Liquid							15	36*/67	395	395	395	>480	>480
		Chloro ethanol, 2-	107-07-3	Liquid	imm							>480	>480	>480	>480	>480	>480
		Chloro picrin	76-06-2	Liquid									>480	>480	>480		
		Chloroform	67-66-3	Liquid	imm						imm	imm	imm	imm	imm	>480	>480
		Chloroform (1000 ppm)	67-66-3	Vapor									>480	>480			
		Diamino sulfo chloride	13360-57-1	Liquid									>480	>480			
		Dibromo -3-chloropropane, 1,2-	96-12-8	Liquid								>480					
		Dibromoethane, 1,2-	106-93-4	Liquid								>480	144*/288	144*/288	144*/288	>480	>480
		Dichlorethane, 1.2.-	107-06-2	Liquid							imm	>480	93	93	93	>480	>480

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Dichloro -2-propanone, 1,3- (45 °C, molten)	534-07-6	Liquid									>480	>480	>480		
		Dichloro -2-propanone, 1,3- (95% at 40 °C, molten)	534-07-6	Liquid													>480
		Dichloro acetone, 1,3- (45 °C, molten)	534-07-6	Liquid									>480	>480	>480		
		Dichloro acetone, 1,3- (95% at 40 °C, molten)	534-07-6	Liquid													>480
		Dichloro ethyl ether	111-44-4	Liquid								>480	>480	>480	>480	>480	>480
		Dichloro methane	75-09-2	Liquid	imm						imm	imm	imm	imm	imm	>480	>480
		Dichloro methane (10.000 ppm)	75-09-2	Vapor									52	52			
		Dichloro methane (1000 ppm)	75-09-2	Vapor									>480	>480			
		Dichloro propene, 1,3- (95%)	542-75-6	Liquid								imm				>480	
		Dichloro propene, 2,3-	78-88-6	Liquid								280	imm*/25	imm*/25	imm*/25	>480	>480
		Diiodo-1,1,2,2-tetrafluorobutane, 1,4-	755-95-3	Liquid												>480	>480
		Epichlorohydrin	106-89-8	Liquid							15	36*/67	395	395	395	>480	>480
		Ethane trichloride	79-00-5	Liquid									164*/232	164*/232	164*/232	>480	>480
		Ethanoyl chloride	75-00-3	Vapor													>480
		Ethyl chloride	75-00-3	Vapor													>480
		Ethylene chlorohydrin	107-07-3	Liquid	imm							>480	>480	>480	>480	>480	>480
		Ethylene dibromide	106-93-4	Liquid								>480	144*/288	144*/288	144*/288	>480	>480
		Ethylene dichloride	107-06-2	Liquid							imm	>480	93	93	93	>480	>480
		Fluoroform	75-46-7	Vapor												>480	>480
		Glycol chlorohydrin	107-07-3	Liquid	imm							>480	>480	>480	>480	>480	>480
		Hexachloro cyclohexane, 1,2,3,4,5,6- (sat in Acetone)	58-89-9	Liquid												>480	>480
		Hexachloro cyclohexane, 1,2,3,4,5,6- (sat in Methanol)	58-89-9	Liquid													>480
		Hexafluoro ethane	76-16-4	Vapor												>480	>480
		Hexafluoro isobutylene	382-10-5	Vapor												>480	>480
		Iodomethane	74-88-4	Liquid							imm		296	296	296	>480	>480
		Lindane (sat in Acetone)	58-89-9	Liquid												>480	>480
		Lindane (sat in Methanol)	58-89-9	Liquid													>480
		Methyl bromide	74-83-9	Vapor							>480					>480	>480

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Methyl chloride (-70 °C, liquid)	74-87-3	Liquid													>180
		Methyl chloride (gaseous)	74-87-3	Vapor	imm						>480	>480	>480	>480	>480	>480	>480
		Methyl chloroform	71-55-6	Liquid								>480			>480	>480	>480
		Methyl fluoride	593-53-3	Vapor												>480	>480
		Methyl iodide	74-88-4	Liquid							imm		296	296	296	>480	>480
		Methyl trichloromethane	71-55-6	Liquid								>480			>480	>480	>480
		Methylene bromide	74-95-3	Liquid								40	imm	imm	imm		
		Methylene chloride	75-09-2	Liquid	imm						imm	imm	imm	imm	imm	>480	>480
		Methylene chloride (10.000 ppm)	75-09-2	Vapor									52	52			
		Methylene chloride (1000 ppm)	75-09-2	Vapor									>480	>480			
		Nitro chlormethan	76-06-2	Liquid									>480	>480	>480		
		Norflurane	811-97-2	Vapor							>480	>480	>480	>480		>480	>480
		Perfluoro 2-propoxy propionyl fluoride	2062-98-8	Liquid												>480	>480
		Perfluoroethane	76-16-4	Vapor												>480	>480
		Propyl bromide, n-	106-94-5	Liquid							12	>480	>480	>480		12	
		Propylene dichloride	78-87-5	Liquid												>480	>480
		Tetrachloro ethane, 1,1,2,2,-	79-34-5	Liquid							25	>480	>480	>480	>480	>480	>480
		Tetrachloro methane	56-23-5	Liquid								>480	imm*/11	imm*/11	imm*/11	>480	>480
		Tetrachloro methane (1000 ppm)	56-23-5	Vapor									>480	>480			
		Tetrafluoroethane, 1,1,1,2-	811-97-2	Vapor							>480	>480	>480	>480		>480	>480
		Tetrafluoromethane	75-73-0	Vapor												>480	>480
		Trichloro 1,2,2-trifluoroethane, 1,1,2-	76-13-1	Liquid								>480				>480	>480
		Trichloro acetone, 1,1,3- (87.7%)	921-03-9	Liquid									467*/476	467*/476	467*/476		
		Trichloro ethane, 1,1,1-	71-55-6	Liquid								>480			>480	>480	>480
		Trichloro ethane, 1,1,2-	79-00-5	Liquid									164*/232	164*/232	164*/232	>480	>480
		Trichloro methane	67-66-3	Liquid	imm						imm	imm	imm	imm	imm	>480	>480
		Trichloro methane (1000 ppm)	67-66-3	Vapor									>480	>480			
		Trifluoro 2-(trifluoromethyl) propene, 3,3,3-	382-10-5	Vapor												>480	>480
		Trifluoro acetic acid	76-05-1	Liquid							>480		>480	>480	>480	>480	
		Trifluoro methane	75-46-7	Vapor												>480	>480
	263																
		Amino 3,4-dichlorobenzene, 1-	95-76-1	Solid												>480	>480

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Chemical Permeation Data Tables

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Amino 3,4-dichlorobenzene, 1- (70 °C, molten)	95-76-1	Liquid							imm					216*/284	216*/284
		Benzo trichloride	98-07-7	Liquid								>480					
		Bromo 4-fluorobenzene, 1-	460-00-4	Liquid								>480	>480	>480	>480	>480	>480
		Bromo fluorobenzene, 4-	460-00-4	Liquid								>480	>480	>480	>480	>480	>480
		Chloro 1-methylbenzene, 2-	95-49-8	Liquid							13	>480	>480	>480	>480	>480	>480
		Chloro 2-nitrobenzene, 1-	88-73-3	Solid	15												
		Chloro 2-nitrobenzene, 1- (35-40 °C, molten)	88-73-3	Liquid									>480	>480	>480		
		Chloro benzene	108-90-7	Liquid								63	>480	>480	>480	>480	>480
		Chloro benzotrichloride, 4-	5216-25-1	Liquid								>480					
		Chloro benzotrifluoride, 4-	98-56-6	Liquid								460					
		Chloro phenol, p- (sat in Methanol)	106-48-9	Liquid												>480	>480
		Chloro toluene, o-	95-49-8	Liquid							13	>480	>480	>480	>480	>480	>480
		Cyanide chloride (20% in Toluene)	108-77-0	Liquid												>480	>480
		Dichlorbenzen, 1,2-	95-50-1	Liquid							76	>480	>480	>480		>480	>480
		Dichlorbenzen, 1,3-	541-73-1	Liquid							45	>480	>480	>480	>480	>480	>480
		Dichlorbenzen, 1,4- (50% in Ethanol)	106-46-7	Liquid							>480	131	>480	>480		>480	>480
		Dichloro aniline, 3,4-	95-76-1	Solid												>480	>480
		Dichloro aniline, 3,4- (70 °C, molten)	95-76-1	Liquid							imm					216*/284	216*/284
		Fluorobenzene	462-06-6	Liquid							imm	>480	>480	>480	>480	>480	>480
		Hydroxy chlorobenzene (sat in Methanol)	106-48-9	Liquid												>480	>480
		Nitro chlorobenzene, p-	100-00-5	Solid	imm												
		PCB (50% in Trichlorbenzene)	mix	Liquid												>480	>480
		PCB 1254 (50% in Mineral Oil)	11097-69-1	Liquid							>480					>480	
		PCB 1254 (90%)	11097-69-1	Liquid							>480						
		PCB in transformer oil (mix)	mix	Liquid								>480	>480	>480	>480		
		Phenyl chloride	108-90-7	Liquid								63	>480	>480	>480	>480	>480

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					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Tetrachloro bisphenol-A, 2,2', 6,6'-	79-95-8	Solid									>480	>480	>480		
		Trichloro 1,3,5-triazine, 2,4,6- (20% in Toluene)	108-77-0	Liquid												>480	>480
		Trichloro benzene, 1,2,4-	120-82-1	Liquid	imm						87	>480	>480	>480	>480	>480	>480
	264																
		Chloro acrylonitrile, 2-	920-37-6	Liquid								146	>480	>480	>480	>480	
		Chloro ethene	75-01-4	Vapor							>480	>480	>480	>480	>480	>480	>480
		Dichloro ethylene, 1,1-	75-35-4	Liquid								170	>480	>480	>480	>480	>480
		Ethylene tetrachloride	127-18-4	Liquid	imm						imm	>480	>480	>480	>480	>480	>480
		Ethylene trichloride	79-01-6	Liquid							imm	>480	>480	>480	>480	>480	>480
		Hexachloro butadiene	87-68-3	Liquid												>480	>480
		Tetrachloro ethylene, 1,1,2,2-	127-18-4	Liquid	imm						imm	>480	>480	>480	>480	>480	>480
		Trichloro ethylene	79-01-6	Liquid							imm	>480	>480	>480	>480	>480	>480
		Vinyl chloride	75-01-4	Vapor							>480	>480	>480	>480	>480	>480	>480
		Vinylidene chloride	75-35-4	Liquid								170	>480	>480	>480	>480	>480
	265																
		Allyl chloride	107-05-1	Liquid								12	381*/447	381*/447	381*/447	>480	>480
		Chlor allylene	107-05-1	Liquid								12	381*/447	381*/447	381*/447	>480	>480
		Chloro prene, 3-	107-05-1	Liquid								12	381*/447	381*/447	381*/447	>480	>480
	266																
		Benzyl chloride	100-44-7	Liquid								>480	>480	>480	>480	>480	>480
		Chloro toluene, alpha-	100-44-7	Liquid								>480	>480	>480	>480	>480	>480
270																	
	270																
		2-Methyl-4-isothiazolin-3-one (20%)	2682-20-4	Liquid	>480						>480		>480	>480			
		Benzisothiazol 1,2- (20%)	2634-33-5	Liquid	>480						>480		>480	>480			
	271																
		Amino pyridine, 2- (sat)	504-29-0	Liquid							>480					>480	
		Methyl pyridine, 2-	109-06-8	Liquid								>480	>480	>480	>480	>480	>480

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		Methyl pyridine, 3-	108-99-6	Liquid								>480	>480	>480	>480	>480	>480
		Nicotine	54-11-5	Liquid								>480	>480	>480	>480	>480	>480
		Nicotine (9 mg/ml)	54-11-5	Liquid		>480	>480										
		Picoline, 2-	109-06-8	Liquid								>480	>480	>480	>480	>480	>480
		Picoline, 3-	108-99-6	Liquid								>480	>480	>480	>480	>480	>480
		Pyridene, 2-fluoro-6-(trifluoromethyl)	94239-04-0	Liquid									>480	>480	>480		
		Pyridine	110-86-1	Liquid							31	>480	>480	>480	>480	>480	>480
		Vinyl pyridine, 4-	100-43-6	Liquid							15					15	
	274																
		2-Methyl-4-isothiazolin-3-one (20%)	2682-20-4	Liquid	>480						>480		>480	>480			
		Amino ethylpiperazine	140-31-8	Liquid							>480	>480	>480	>480	>480	>480	>480
		Aziridine	151-56-4	Liquid												59	>480
		Azolidine	123-75-1	Liquid								342	45*/100	45*/100	45*/100	413	413
		Benzisothiazol 1,2- (20%)	2634-33-5	Liquid	>480						>480		>480	>480			
		Cyanide chloride (20% in Toluene)	108-77-0	Liquid												>480	>480
		Dichloro -6-isopropyl-S-triazine, 2,4- (22% in Toluene)	30894-74-7	Liquid												>480	>480
		Diethylene imide oxide	110-91-8	Liquid							158					>480	>480
		Ethylene imine	151-56-4	Liquid												59	>480
		Methyl imidazole, 1-	616-47-7	Liquid									>480	>480			
		Morpholine	110-91-8	Liquid							158					>480	>480
		Méthyl aziridine, 2- (90%)	75-55-8	Liquid												150	150
		N-Methylmorpholine (NMM)	109-02-4	Liquid								>480			>480		
		Propylene imine (90%)	75-55-8	Liquid												150	150
		Pyrrolidine	123-75-1	Liquid								342	45*/100	45*/100	45*/100	413	413
			288-47-														

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					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Thiazol, 1,3-	1	Liquid									>480	>480			
		Trichloro 1,3,5-triazine, 2,4,6- (20% in Toluene)	108-77-0	Liquid												>480	>480
	275																
		Bis (4-(2,3-epoxypropoxy)phenyl) propane	1675-54-3	Liquid									>480	>480	>480	>480	>480
		Bis (4-(2,3-epoxypropoxy)phenyl) propane (80%)	1675-54-3	Liquid							>480						
		Bis phenol A diglycidyl ether	1675-54-3	Liquid									>480	>480	>480	>480	>480
		Bis phenol A diglycidyl ether (80%)	1675-54-3	Liquid							>480						
		Chloro 2,3-epoxy propane, 1-	106-89-8	Liquid							15	36*/67	395	395	395	>480	>480
		Epichlorohydrin	106-89-8	Liquid							15	36*/67	395	395	395	>480	>480
		Epoxy ethane (-70 °C, liquid)	75-21-8	Liquid													>180
		Epoxy ethane (0 °C, liquid)	75-21-8	Liquid												>480	>480
		Epoxy ethane (10% in HCFC)	75-21-8	Vapor													>480
		Epoxy ethane (11 °C, liquid)	75-21-8	Liquid								18					
		Epoxy ethane (gaseous)	75-21-8	Vapor	imm						imm	12	126	118	>480	>480	>480
		Epoxy propane, 1,2-	75-56-9	Liquid								47	43	43	13*/20	>480	>480
		Ethylene oxide (-70 °C, liquid)	75-21-8	Liquid													>180
		Ethylene oxide (0 °C, liquid)	75-21-8	Liquid												>480	>480
		Ethylene oxide (10% in HCFC)	75-21-8	Vapor													>480
		Ethylene oxide (11 °C, liquid)	75-21-8	Liquid								18					
		Ethylene oxide (>95%, 2.9M in THF sol., Liquid)	75-21-8	Liquid										>480			
		Ethylene oxide (gaseous)	75-21-8	Vapor	imm						imm	12	126	118	>480	>480	>480
		Isopropylidenediphenol diglycidyl ether, 4,4'-	1675-54-3	Liquid									>480	>480	>480	>480	>480
		Isopropylidenediphenol diglycidyl ether, 4,4'- (80%)	1675-54-3	Liquid							>480						
		Phenyl glycidyl ether	122-60-1	Liquid							>480					>480	
		Propylene oxide, 1,2-	75-56-9	Liquid								47	43	43	13*/20	>480	>480
	277																
		2,5-Dimethoxytetrahydrofuran	696-59-3	Liquid									>480				
		2-Methyltetrahydrofuran	96-47-9	Liquid									>480				
		Furaldehyde, 2-	98-01-1	Liquid							198*/227	>480	>480	>480	>480	>480	>480
			110-00-														

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Chemical Permeation Data Tables

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Furan	9	Liquid									97	97			
		Furfural	98-01-1	Liquid							198*/227	>480	>480	>480	>480	>480	>480
		Tetrahydrofuran	109-99-9	Liquid	imm						imm	>480	>480	>480	>480	>480	>480
	278																
		Diethylene imide oxide	110-91-8	Liquid							158					>480	>480
		Diketene Acetone (95%)	5394-63-8	Liquid									>480	>480			
		Dioxane, 1,4-	123-91-1	Liquid								>480	>480	>480	>480	>480	>480
		Ethylene Carbonate solution (60%)	96-49-1	Liquid							>480		>480				
		Morpholine	110-91-8	Liquid							158					>480	>480
		N-Methylmorpholine (NMM)	109-02-4	Liquid								>480			>480		
280																	
	280																
		Dimethyl hydrazine, N,N-	57-14-7	Liquid							13					>480[8]	>480[8]
		Hydrazine	302-01-2	Liquid							>480		283	283	283	>480	>480
		Hydrazine hydrate (51%)	10217-52-4	Liquid													>480
		Hydrazine hydrate (85%)	10217-52-4	Liquid												440	440
		Methyl hydrazine	60-34-4	Liquid									183*/283	183*/283	183*/283	>480	>480
290																	
	290																
		Diesel Fuel Grade D-2	mix	Liquid							>480		>480	>480			>480
	291																
		Carburant n° 2	68476-30-2	Liquid	imm						>480					>480	
		Crude oil	8002-05-9	Liquid							>480					>480	>480
		Crude oil, California	8002-05-9	Liquid							>480					>480	>480
		Cyclo hexane	110-82-7	Liquid								>480	>480	>480	>480	>480	>480
		Diesel automotive test fuel	mix	Liquid	imm												
		Diesel fuel	68334-30-5	Liquid								199	>480	>480	>480	>480	>480

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		Fuel-oil no 2	68476-30-2	Liquid	imm						>480					>480	
		Gasoline, leaded	mix	Liquid									imm*/21	imm*/21	imm*/21		>480
		Gasoline, unleaded	86290-81-5	Liquid							imm	>480	>480	>480	>480	>480	>480
		Gasoline, unleaded E10 (87 Octane)	308066-70-8	Liquid							imm					imm	
		Heptane	142-82-5	Liquid								>480	>480	>480			
		Hexane, n-	110-54-3	Liquid	imm						imm	>480	>480	>480	>480	>480	>480
		JP-4 Jet Fuel	50815-00-4	Liquid							imm					>480	>480
		JP-8 Jet Fuel	94114-58-6	Liquid							39*/67	>480				>480	>480
		Kerosene	8008-20-6	Liquid							69	>480	>480	>480	>480		
		Low boiling point naphtha - unspecified	8052-41-3	Liquid												>480	>480
		Methylcyclohexane	108-87-2	Liquid									>480				
		Mineral oil	8012-95-1	Liquid							>480					>480	
		Mineral spirit	64475-85-0	Liquid	imm						190					>480	>480
		Octane, n-	111-65-9	Liquid												>480	>480
		Pentanoic acid	109-52-4	Liquid									>480	>480			
		Propane	74-98-6	Vapor												nm	
		Stoddard solvent	8052-41-3	Liquid												>480	>480
		VM & P Naphtha	8030-30-6	Liquid							imm					>480	>480
		White spirit	mix	Liquid									>480	>480	>480		
292																	
		Benzene	71-43-2	Liquid							imm	>480	>480	>480	>480	>480	>480
		Benzene (100 ppm, Gas)	71-43-2	Vapor			>480										
		Benzene (400 ppm, Gas)	71-43-2	Vapor			>480										
		Benzyl methylamine, N-	103-67-3	Liquid									>480	>480	>480		
		Cumene	98-82-8	Liquid								364	>480	>480	>480	>480	>480
			25340-														

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Diethyl benzene (95%)	17-4	Liquid							31		>480	>480	>480	>480	>480
		Ethyl benzene	100-41-4	Liquid							imm	>480	>480	>480	>480	>480	>480
		Isopropyl benzene	98-82-8	Liquid								364	>480	>480	>480	>480	>480
		Methyl benzol	108-88-3	Liquid	imm						imm	>480	>480	>480	>480	>480	>480
		Methyl benzylamine, N-	103-67-3	Liquid									>480	>480	>480		
		Phenethylene	100-42-5	Liquid							16	>480	>480	>480	>480	>480	>480
		Phenyl ethane	100-41-4	Liquid							imm	>480	>480	>480	>480	>480	>480
		Phenyl propane, 2-	98-82-8	Liquid								364	>480	>480	>480	>480	>480
		Styrene	100-42-5	Liquid							16	>480	>480	>480	>480	>480	>480
		Toluene	108-88-3	Liquid	imm						imm	>480	>480	>480	>480	>480	>480
		Vinyl benzol	100-42-5	Liquid							16	>480	>480	>480	>480	>480	>480
		Xylene, mixed isomers	1330-20-7	Liquid								>480	>480	>480	>480	>480	>480
		Xylene, o-	95-47-6	Liquid								>480					
	293																
		Anthracene (sat in Toluene)	120-12-7	Liquid								>480	>480	>480	>480		
		Anthracin (sat in Toluene)	120-12-7	Liquid								>480	>480	>480	>480		
		Naphthalene	91-20-3	Solid								>480	>480	>480	>480		
		Naphthalene (25% in Diethylene glycol dimethylether)	91-20-3	Liquid							79	>480	>480	>480	>480	>480	>480
	294																
		Crude oil	8002-05-9	Liquid							>480					>480	>480
		Crude oil, California	8002-05-9	Liquid							>480					>480	>480
	296																
		Butadiene, 1,3- (0 °C, liquid)	106-99-0	Liquid													>180
		Butadiene, 1,3- (gaseous)	106-99-0	Vapor	imm					imm	>480	>480	>480	>480	>480	>480	>480
		Cyclo octadiene	1552-12-1	Liquid								>480					
			5989-														

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					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Limonene d-	27-5	Liquid	imm							>480	>480	>480	>480	>480	>480
		Methyl 4-isopropenyl-1-cyclohexene, 1-	5989-27-5	Liquid	imm							>480	>480	>480	>480	>480	>480
		Vinyl ethylene (0 °C, liquid)	106-99-0	Liquid													>180
		Vinyl ethylene (gaseous)	106-99-0	Vapor	imm					imm	>480	>480	>480	>480	>480	>480	>480
300																	
	300																
		Methyl Ethyl Ketone Peroxide (35%)	1338-23-4	Liquid							>480	>480	>480	>480			
		Peracetic Acid (32%)	79-21-0	Liquid							272	>480	>480	>480			
		Tert-Butyl Hydroperoxide	75-91-2	Liquid											>480		
	301																
		Hydrogen peroxide (10%)	7722-84-1	Liquid		>10	>10										
		Hydrogen peroxide (30%)	7722-84-1	Liquid	>480	imm	imm				>480					>480	>480
		Hydrogen peroxide (50%)	7722-84-1	Liquid	>480							>480	>480	>480	>480		
		Hydrogen peroxide (70%)	7722-84-1	Liquid	>480					>480			>480	>480	>480	>480	>480
	302																
		Methyl Ethyl Ketone Peroxide (35%)	1338-23-4	Liquid							>480	>480	>480	>480			
		Peracetic Acid (32%)	79-21-0	Liquid							272	>480	>480	>480			
		Tert-Butyl Hydroperoxide	75-91-2	Liquid											>480		
310																	
	311																
		2-(2-Butoxyethoxy) ethanol	112-34-5	Liquid									>480	>480	>480		
		Allyl alcohol	107-18-6	Liquid							>480	>480	>480	>480	>480	>480	>480
		Amino ethanol, 2-	141-43-5	Liquid								>480	>480	>480	>480	>480	>480
		Amino ethylethanolamine	111-41-1	Liquid							imm	>480	>480	>480	>480	>480	>480
		Amino ethylethanolamine (60%)	111-41-1	Liquid							>480	>480	>480	>480	>480	>480	>480
		Amyl alcohol	71-41-0	Liquid								>480	>480	>480	>480		
		Butanol, 1-	71-36-3	Liquid	imm						>480	>480	>480	>480	>480	>480	>480
		Butanol, n-	71-36-3	Liquid	imm						>480	>480	>480	>480	>480	>480	>480

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		Butyl alcohol, n-	71-36-3	Liquid	imm						>480	>480	>480	>480	>480	>480	>480
		Diethylene glycol monobutyl ether	112-34-5	Liquid									>480	>480	>480		
		Ethanol	64-17-5	Liquid				imm			>480	>480	>480	>480	>480	>480	
		Ethanol amine	141-43-5	Liquid								>480	>480	>480	>480	>480	>480
		Ethyl alcohol	64-17-5	Liquid				imm			>480	>480	>480	>480	>480	>480	
		Ethylene glycol monomethyl ether	109-86-4	Liquid							>480	405	>480	>480	>480	>480	>480
		Hydroxy 1-ethanethiol, 2-	60-24-2	Liquid									>480	>480	>480		>480
		Hydroxy propene	107-18-6	Liquid							>480	>480	>480	>480	>480	>480	>480
		Mercapto ethanol	60-24-2	Liquid									>480	>480	>480		>480
		Methallyl Alcohol	513-42-8	Liquid									>480				
		Methanol	67-56-1	Liquid	imm						>480	imm	117	117	117	>480	>480
		Methoxy ethanol, 2	109-86-4	Liquid							>480	405	>480	>480	>480	>480	>480
		Pentanol, 1-	71-41-0	Liquid								>480	>480	>480	>480		
		Prop-2-yn-1-ol	107-19-7	Liquid									123	123	123		>480
		Propan -1-ol	71-23-8	Liquid									>480	>480	>480		
		Propanol, 1-	71-23-8	Liquid									>480	>480	>480		
		Propanol, n-	71-23-8	Liquid									>480	>480	>480		
		Propargyl alcohol	107-19-7	Liquid									123	123	123		>480
		Propen 1-ol, 2-	107-18-6	Liquid							>480	>480	>480	>480	>480	>480	>480
		Propyl alcohol	71-23-8	Liquid									>480	>480	>480		
		Spiritus	64-17-5	Liquid				imm			>480	>480	>480	>480	>480	>480	
		Vinyl carbinol	107-18-6	Liquid							>480	>480	>480	>480	>480	>480	>480
	312																
		Benzyl alcohol	100-51-6	Liquid							>480		>480	>480	>480	>480	
		Hydroxy toluene	100-51-6	Liquid							>480		>480	>480	>480	>480	
		Isoamyl alcohol	123-51-3	Liquid							>480					>480	
		Isopropanol	67-63-0	Liquid	imm			imm			>480	>480	>480	>480	>480	>480	>480
		Isopropanol (70%)	67-63-0	Liquid	imm			imm			>480				>480		
		Isopropyl alcohol	67-63-0	Liquid	imm			imm			>480	>480	>480	>480	>480	>480	>480

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		Isopropyl alcohol (70%)	67-63-0	Liquid	imm			imm			>480				>480		
		Methyl butan-1-ol, 3-	123-51-3	Liquid							>480					>480	
		Propan -2-ol	67-63-0	Liquid	imm			imm			>480	>480	>480	>480	>480	>480	>480
		Propan -2-ol (70%)	67-63-0	Liquid	imm			imm			>480				>480		
	313																
		2-Methyl-2-Butanol	75-85-4	Liquid									>480	>480			
		Acetone cyanohydrin	75-86-5	Liquid									>480	>480	>480	>480	>480
		Amyl alcohol, tert-	75-85-4	Liquid									>480	>480			
		Butanol, tert-	75-65-0	Liquid									37*/205	37*/205	37*/205		
		Cyanopropan-2-ol, 2-	75-86-5	Liquid									>480	>480	>480	>480	>480
		Hydroxy 2-methylpropionitrile, 2-	75-86-5	Liquid									>480	>480	>480	>480	>480
		Hydroxy isobutyronitrile	75-86-5	Liquid									>480	>480	>480	>480	>480
		Methyl propan-2-ol, 2-	75-65-0	Liquid									37*/205	37*/205	37*/205		
		Pentanol, tert-	75-85-4	Liquid									>480	>480			
	314																
		Chloro 1,2-propanediol, 3-	96-24-2	Liquid												>480	>480
		Ethane 1,2-diol	107-21-1	Liquid	>480	imm	imm	imm			>480		>480	>480	>480	>480	>480
		Ethylene glycol	107-21-1	Liquid	>480	imm	imm	imm			>480		>480	>480	>480	>480	>480
		Glycerine	56-81-5	Liquid		>480	>480										
		Glycerol	56-81-5	Liquid		>480	>480										
		Glycol alcohol	107-21-1	Liquid	>480	imm	imm	imm			>480		>480	>480	>480	>480	>480
		Propane -1,2,3-triol	56-81-5	Liquid		>480	>480										
	315																
		Chloro ethanol, 2-	107-07-3	Liquid	imm							>480	>480	>480	>480	>480	>480
		Ethylene chlorohydrin	107-07-3	Liquid	imm							>480	>480	>480	>480	>480	>480
		Glycol chlorohydrin	107-07-3	Liquid	imm							>480	>480	>480	>480	>480	>480
		Trichloro ethanol, 2,2,2-	115-20-8	Liquid							>480	>480	>480	>480	>480	>480	>480
		Trifluoro ethanol, 2,2,2-	75-89-8	Liquid	imm											>480	>480
	316																
		Chloro 1-methylbenzene, 2-	95-49-8	Liquid							13	>480	>480	>480	>480	>480	>480
		Chloro phenol, p- (sat in Methanol)	106-48-9	Liquid												>480	>480
		Chloro toluene, o-	95-49-8	Liquid							13	>480	>480	>480	>480	>480	>480

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		Creosote	8001-58-9	Liquid									>480	>480	>480		
		Cresol o-	95-48-7	Liquid	13						>480	198	179	179	179	>480	
		Cresols, mixed isomers	1319-77-3	Liquid	71						100		>480	>480		>480	>480
		Cresylic acid	1319-77-3	Liquid	71						100		>480	>480		>480	>480
		Dinitro-o-cresol, 4,6- (sat in Methanol)	534-52-1	Liquid												>480	>480
		Dinitrocresol (sat in Methanol)	534-52-1	Liquid												>480	>480
		Hydroxy 2-nitrobenzene, 1- (70 °C, molten)	88-75-5	Liquid							imm					208	208
		Hydroxy chlorobenzene (sat in Methanol)	106-48-9	Liquid												>480	>480
		Hydroxy toluene, o-	95-48-7	Liquid	13						>480	198	179	179	179	>480	
		Methyl phenols	1319-77-3	Liquid	71						100		>480	>480		>480	>480
		Nitro phenol, o- (70 °C, molten)	88-75-5	Liquid							imm					208	208
		Pentachlorophenol (sat in Methanol)	87-86-5	Liquid												>480	>480
		Phenol (45 °C, molten)	108-95-2	Liquid							44	17	25	25	25	101	>480
		Phenol (60 °C, molten)	108-95-2	Liquid							imm	imm	imm	imm		121	125
		Phenol (85% at 45 °C)	108-95-2	Liquid												149	>480
		Phenol (85%)	108-95-2	Liquid	11						>480	341	>480	>480	>480	>480	>480
		Tetrachloro bisphenol-A, 2,2', 6,6'-	79-95-8	Solid									>480	>480	>480		
		m-Cresol 55%, p-Cresol 30%, Phenol 15% (mix)	mix	Liquid												>480	>480
	318																
		Phenethyl alcohol, 2-	60-12-8	Liquid								>480					
		Phenyl ethanol, 1-	98-85-1	Liquid							>480	>480	>480	>480		>480	>480
330																	
	330																
		Bromine	7726-95-6	Liquid	imm							imm	imm	imm	imm	imm	15
		Bromine (10 g/m^2)	7726-95-6	Liquid													>480
			7726-														

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					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Bromine (sat vapour)	95-6	Vapor													30*/40
		Chlorine (-70 °C, liquid)	7782-50-5	Liquid								>480				441	>480
		Chlorine (20 ppm)	7782-50-5	Vapor	>480[8]												
		Chlorine (gaseous)	7782-50-5	Vapor	imm						>480	imm	>480	>480	>480	>480	>480
		Iodine	7553-56-2	Solid							>480						
		Mercury	7439-97-6	Liquid	>480						>480	>480	>480	>480	>480	>480	>480
340																	
	340																
		Ammonium bifluoride (sat)	1341-49-7	Liquid									>480	>480	>480		
		Ammonium chloride (sat)	12125-02-9	Liquid								>480					
		Ammonium fluoride (40%)	12125-01-8	Liquid									>480	>480		>480	>480
		Ammonium hydrogendifluoride (sat)	1341-49-7	Liquid									>480	>480	>480		
		Arsenic (III) chloride	7784-34-1	Liquid									32*/38	32*/38	32*/38		
		Arsenic trichloride	7784-34-1	Liquid									32*/38	32*/38	32*/38		
		Calomel (sat)	10112-91-1	Liquid									>480	>480	>480		
		Disodium sulfide (60% (slurry))	1313-82-2	Liquid	>480						>480	>480				>480	>480
		Ferric (II) chloride (sat)	7758-94-3	Liquid									>480	>480		>480	
		Ferric (III) chloride (40%)	7705-08-0	Liquid									>480	>480			
		Ferric (III) chloride (50%)	7705-08-0	Liquid							>480					>480	
		Lithium Hexafluorophosphate (sat.)	21324-40-3	Liquid							>480		>480				
		Lithium chloride (20%)	7447-41-8	Liquid	>480												
		Mercuric I chloride (sat)	10112-91-1	Liquid									>480	>480	>480		
		Mercuric II chloride (sat)	7487-94-7	Liquid							>480					>480[8]	>480[8]
			127-08-														

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Chemical Permeation Data Tables

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Potassium acetate (sat)	2	Liquid							>480		>480	>480		>480[8]	>480[8]
		Potassium carbonate (sat)	584-08-7	Liquid								>480					
		Potassium chromate (sat)	7789-00-6	Liquid		>480	>480				>480		>480	>480	>480	>480[8]	>480[8]
		Potassium permanganate (sat)	7722-64-7	Liquid	>480												
		Sodium fluoride (sat)	7681-49-4	Liquid							>480					>480	
		Sodium hypochlorite (10-15 % active chlorine)	7681-52-9	Liquid		>240	>240	>480									
		Sodium hypochlorite (15%)	7681-52-9	Liquid	>480					>480	>480	>480	>480	>480	>480	>480	>480
		Sodium hypochlorite (5.25-6%)	7681-52-9	Liquid	>480	>480	>480	>480									
		Sodium metabisulphite (38%)	7681-57-4	Liquid	imm						>480	23				>480	>480
		Sodium silicate (40-42%)	6834-92-0	Liquid	>480												
	345																
		Hydrogen cyanide (21 °C, liquid)	74-90-8	Liquid												135	>480
		Hydrogen cyanide (27 °C, gaseous)	74-90-8	Vapor								30				>480	>480
		Potassium cyanide (10%)	151-50-8	Liquid	>480												
		Sodium cyanide (45%)	143-33-9	Liquid	>480					>480		>480	>480	>480	>480		
		Sodium cyanide (sat)	143-33-9	Liquid							>480		>480	>480	>480	>480	
350																	
	350																
		Ammonia (-33 °C, liquid)	7664-41-7	Liquid								35	20	20	30		>480
		Ammonia (-70 °C, liquid)	7664-41-7	Liquid								>480					>480
		Ammonia (gaseous)	7664-41-7	Vapor	imm					imm	26	imm	20	20	90	>480	>480
		Ammonium bifluoride (sat)	1341-49-7	Liquid									>480	>480	>480		
		Ammonium hydrogendifluoride (sat)	1341-49-7	Liquid									>480	>480	>480		
		Arsine	7784-42-1	Vapor												>480	>480

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					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Boron trichloride	10294-34-5	Vapor												>480	>480
		Boron trifluoride	7637-07-2	Vapor												>480	>480
		Bromine hydrogen (gaseous)	10035-10-6	Vapor									>480	>480	>480	>480	>480
		Carbon monoxide	630-08-0	Vapor												330	330
		Chlorine (-70 °C, liquid)	7782-50-5	Liquid								>480				441	>480
		Chlorine (20 ppm)	7782-50-5	Vapor	>480[8]												
		Chlorine (gaseous)	7782-50-5	Vapor	imm						>480	imm	>480	>480	>480	>480	>480
		Chlorine trifluoride	7790-91-2	Vapor												45	45
		Diborane (10%)	19287-45-7	Vapor												>480	>480
		Fluorine	7782-41-4	Vapor													>480
		Hydrofluoric acid (10%)	7664-39-3	Liquid				imm									
		Hydrofluoric acid (48-51%)	7664-39-3	Liquid	280					400	>480	>480	>480	>480	15	>480	>480
		Hydrofluoric acid (60%)	7664-39-3	Liquid									52	52			
		Hydrofluoric acid (70%)	7664-39-3	Liquid							143	126	35	35		>480	>480
		Hydrogen bromide (gaseous)	10035-10-6	Vapor									>480	>480	>480	>480	>480
		Hydrogen chloride (-90 °C, liquid)	7647-01-0	Liquid													>180
		Hydrogen chloride (gaseous)	7647-01-0	Vapor	imm						>480	>480	>480	392	>480	>480	>480
		Hydrogen cyanide (21 °C, liquid)	74-90-8	Liquid												135	>480
		Hydrogen cyanide (27 °C, gaseous)	74-90-8	Vapor								30				>480	>480
		Hydrogen fluoride (20-27 °C, gaseous)	7664-39-3	Vapor	imm						93*/134	186	imm	imm	imm	130	>480
		Hydrogen selenide	7783-07-5	Vapor												>480	>480
		Hydrogen sulfide	7783-06-4	Vapor								imm			>480	>480	>480

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					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Methanethiol	74-93-1	Vapor								>480	>480	>480	>480	>480	>480
		Methyl mercaptan	74-93-1	Vapor								>480	>480	>480	>480	>480	>480
		Nitric oxide	10102-43-9	Vapor													>480
		Nitrogen dioxide	10102-44-0	Vapor							>480		<15	<15	<15		
		Nitrogen tetroxide	10544-72-6	Liquid												>480	>480
		Nitrogen tetroxide (21 °C, liquid)	10544-72-6	Liquid													450
		Nitrogen tetroxide (gaseous)	10544-72-6	Vapor												90	90
		Nitrogen trifluoride	7783-54-2	Vapor												>480	>480
		Nitrous oxide	10024-97-2	Vapor												>480	>480
		Phosgene	75-44-5	Vapor								>480	>480	>480	>480	>480	>480
		Phosphine	7803-51-2	Vapor									imm	imm	imm	>480	>480
		Stickoxid	10102-43-9	Vapor													>480
		Sulfur dioxide	7446-09-5	Vapor	imm						>480		28*/46	28*/46	26*/37	>480	>480
		Sulfur hexafluoride	2551-62-4	Vapor												>480	>480
		Tungsten hexafluoride	7783-82-6	Vapor												>480	>480
360																	
	360																
		Antimony pentachloride	7647-18-9	Liquid							>480		<15	<15	<15	>480	
		Boron trichloride	10294-34-5	Vapor												>480	>480
		Boron trifluoride	7637-07-2	Vapor												>480	>480
		Pentachloroantimony	7647-18-9	Liquid							>480		<15	<15	<15	>480	
		Phosphorus oxychloride	10025-87-3	Liquid								410	>480	>480	>480	>480	>480
		Phosphorus trichloride	7719-12-2	Liquid							imm	>480	>480	>480	>480	>480	>480
		Silicon tetrachloride	10026-04-7	Liquid							35	>480	>480	>480	>480	>480	>480
			7719-														

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Thionyl chloride	09-7	Liquid								15	21	21	21	35	90
		Titan(IV) chloride	7550-45-0	Liquid							imm	120	>480	>480	>480	>480	>480
		Titanium tetrachloride	7550-45-0	Liquid							imm	120	>480	>480	>480	>480	>480
		Vanadium tetrachloride	7632-51-1	Liquid											>480		
	365																
		Sulfur dioxide	7446-09-5	Vapor	imm						>480		28*/46	28*/46	26*/37	>480	>480
		Sulfur trioxide	7446-11-9	Liquid								imm				90	90
370																	
	370																
		Amido sulfonic acid (15%)	5329-14-6	Liquid	>480								>480	>480		>480	>480
		Bromine hydrogen (gaseous)	10035-10-6	Vapor									>480	>480	>480	>480	>480
		Chlorsulfonic acid	7790-94-5	Liquid						41	>480	330	>480	>480	17	>480	>480
		Chromic acid (CrO3) (44.9%)	1333-82-0	Liquid						>480	>480		>480	>480		>480	>480
		Fluoroboric acid (48-50%)	16872-11-0	Liquid							>480					>480	
		Fluorosilicic acid (33-35%)	16961-83-4	Liquid							>480	>480	>480	>480	>480	>480	
		Fluorosulfonic acid	7789-21-1	Liquid									194	194		>480	>480
		Hydriodic acid (47%)	10034-85-2	Liquid							>480					>480	
		Hydriodic acid (55-57%)	10034-85-2	Liquid								>480	>480	>480	>480	>480	>480
		Hydrobromic acid (48%)	10035-10-6	Liquid								>480	>480	>480			
		Hydrochloric acid (16%)	7647-01-0	Liquid		imm	imm	imm									
		Hydrochloric acid (32%)	7647-01-0	Liquid		imm	imm	imm									
		Hydrochloric acid (37%)	7647-01-0	Liquid	140					54	>480	>480	>480	>480	>480	>480	>480
		Hydrofluoric acid (10%)	7664-39-3	Liquid				imm									
		Hydrofluoric acid (48-51%)	7664-39-3	Liquid	280					400	>480	>480	>480	>480	15	>480	>480

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Hydrofluoric acid (60%)	7664-39-3	Liquid									52	52			
		Hydrofluoric acid (70%)	7664-39-3	Liquid							143	126	35	35		>480	>480
		Hydrogen bromide (gaseous)	10035-10-6	Vapor									>480	>480	>480	>480	>480
		Hydrogen chloride (-90 °C, liquid)	7647-01-0	Liquid													>180
		Hydrogen chloride (gaseous)	7647-01-0	Vapor	imm						>480	>480	>480	392	>480	>480	>480
		Hydrogen cyanide (21 °C, liquid)	74-90-8	Liquid												135	>480
		Hydrogen cyanide (27 °C, gaseous)	74-90-8	Vapor								30				>480	>480
		Hydrogen fluoride (20-27 °C, gaseous)	7664-39-3	Vapor	imm						93*/134	186	imm	imm	imm	130	>480
		Hypophosphorus acid (50%)	6303-21-5	Liquid								>480	>480	>480	>480		
		Nitric acid (10%)	7697-37-2	Liquid		>120	>120										
		Nitric acid (30%)	7697-37-2	Liquid		imm	imm	imm									
		Nitric acid (50%)	7697-37-2	Liquid											>480		
		Nitric acid (70%)	7697-37-2	Liquid	213					203	>480		>480	>480	105*/140	>480	>480
		Nitric acid (90%)	7697-37-2	Liquid								>480				>480	>480
		Nitric acid (>95%)	7697-37-2	Liquid									46	46			390
		Nitric acid, red fuming (90%)	52583-42-3	Liquid									imm*/10	imm*/10	imm	>480	>480
		Oleum (103% (13% free SO3))	8014-95-7	Liquid	230												>480
		Oleum (20% free SO3)	8014-95-7	Liquid	60						>480		>480	>480	15*/59	>480	
		Oleum (30% free SO3)	8014-95-7	Liquid							>480					>480	
		Oleum (40% free SO3)	8014-95-7	Liquid									455*/468	455*/468	imm*/12	>480	>480
		Oleum (65% free SO3)	8014-95-7	Liquid								15	248	248			>480
		Perchloric acid (70%)	7601-90-3	Liquid									>480	>480		>480	>480

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		Phosphinic acid (50%)	6303-21-5	Liquid								>480	>480	>480	>480		
		Phosphoric acid (50%)	7664-38-2	Liquid		>480	>480	>480									
		Phosphoric acid (85%)	7664-38-2	Liquid	>480						>480	>480	>480	>480	>480	>480	>480
		Sulfamic acid (15%)	5329-14-6	Liquid	>480								>480	>480		>480	>480
		Sulfamidic acid (15%)	5329-14-6	Liquid	>480								>480	>480		>480	>480
		Sulfuric acid (18%)	7664-93-9	Liquid		>240	>240	>480									
		Sulfuric acid (30%)	7664-93-9	Liquid		>240	>240	>480							>480		
		Sulfuric acid (50%)	7664-93-9	Liquid		>30	>30								>480		
		Sulfuric acid (70%)	7664-93-9	Liquid											>480		
		Sulfuric acid (98% at 50 °C)	7664-93-9	Liquid									>480	>480			
		Sulfuric acid (>95%)	7664-93-9	Liquid	>480					>480	>480	>480	>480	>480	50	>480	>480
		Sulfuric acid fuming (103% (13% free SO3))	8014-95-7	Liquid	230												>480
		Sulfuric acid fuming (20% free SO3)	8014-95-7	Liquid	60						>480		>480	>480	15*/59	>480	
		Sulfuric acid fuming (30% free SO3)	8014-95-7	Liquid							>480					>480	
		Sulfuric acid fuming (40% free SO3)	8014-95-7	Liquid									455*/468	455*/468	imm*/12	>480	>480
		Sulfuric acid fuming (65% free SO3)	8014-95-7	Liquid								15	248	248			>480
380																	
	380																
		Ammonia (-33 °C, liquid)	7664-41-7	Liquid								35	20	20	30		>480
		Ammonia (-70 °C, liquid)	7664-41-7	Liquid								>480					>480
		Ammonia (gaseous)	7664-41-7	Vapor	imm					imm	26	imm	20	20	90	>480	>480
		Ammonium hydroxide (16%)	1336-21-6	Liquid		imm	imm	imm									
		Ammonium hydroxide (2-3% in Householdcleaner)	1336-21-6	Liquid							>480				>480	>480	

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		Ammonium hydroxide (28% - 30%)	1336-21-6	Liquid	imm	imm	imm					89				160	>480
		Ammonium hydroxide (32%)	1336-21-6	Liquid							55		>480	>480	35		
		Caustic ammonia (16%)	1336-21-6	Liquid		imm	imm	imm									
		Caustic ammonia (2-3% in Householdcleaner)	1336-21-6	Liquid							>480				>480	>480	
		Caustic ammonia (28% - 30%)	1336-21-6	Liquid	imm	imm	imm					89				160	>480
		Caustic ammonia (32%)	1336-21-6	Liquid							55		>480	>480	35		
		Caustic soda (10%)	1310-73-2	Liquid		>480	>480	>480									
		Caustic soda (40%)	1310-73-2	Liquid		>30	>30										
		Caustic soda (50% at 50 °C)	1310-73-2	Liquid									>480	>480			
		Caustic soda (50%)	1310-73-2	Liquid	>480	>30	>30	>480		>480	>480	>480	>480	>480	>480	>480	>480
		Caustic soda (>95%, solid)	1310-73-2	Solid		>480	>480										
		Lithium hydroxide (14.9%)	1310-65-2	Liquid	>480					>480							
		Methanethiol	74-93-1	Vapor								>480	>480	>480	>480	>480	>480
		Methyl mercaptan	74-93-1	Vapor								>480	>480	>480	>480	>480	>480
		Potassium hydroxide (40%)	1310-58-3	Liquid		imm	imm	>120									
		Potassium hydroxide (45%)	1310-58-3	Liquid	>480					>480	>480	>480	>480	>480	>480	>480	>480
		Potassium hydroxide (50%)	1310-58-3	Liquid									>480	>480	>480		
		Sodium hydroxide (10%)	1310-73-2	Liquid		>480	>480	>480									
		Sodium hydroxide (40%)	1310-73-2	Liquid		>30	>30										
		Sodium hydroxide (50% at 50 °C)	1310-73-2	Liquid									>480	>480			
		Sodium hydroxide (50%)	1310-73-2	Liquid	>480	>30	>30	>480		>480	>480	>480	>480	>480	>480	>480	>480
		Sodium hydroxide (>95%, solid)	1310-73-2	Solid		>480	>480										

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		2-Methyl-4-isothiazolin-3-one (20%)	2682-20-4	Liquid	>480						>480		>480	>480			
		Benzisothiazol 1,2- (20%)	2634-33-5	Liquid	>480						>480		>480	>480			
	391																
		2-Methyl-4-isothiazolin-3-one (20%)	2682-20-4	Liquid	>480						>480		>480	>480			
		Acetone	67-64-1	Liquid	imm					imm	13	462	>480	>480	>480	>480	>480
		Benzisothiazol 1,2- (20%)	2634-33-5	Liquid	>480						>480		>480	>480			
		But-3-en-2-one	78-94-4	Liquid									>480	>480	>480		
		Butanone	78-93-3	Liquid							18	>480	40*/64	40*/64	40*/64	>480	>480
		Chloro acetone (95%)	78-95-5	Liquid							258	>480	>480	>480	>480	>480[8]	
		Chloro propan-2-one, 1- (95%)	78-95-5	Liquid							258	>480	>480	>480	>480	>480[8]	
		Cyclo hexanone	108-94-1	Liquid							136		>480	>480	>480	>480	>480
		Dichloro -2-propanone, 1,3- (45 ° C, molten)	534-07-6	Liquid									>480	>480	>480		
		Dichloro -2-propanone, 1,3- (95% at 40 °C, molten)	534-07-6	Liquid													>480
		Dichloro acetone, 1,3- (45 °C, molten)	534-07-6	Liquid									>480	>480	>480		
		Dichloro acetone, 1,3- (95% at 40 °C, molten)	534-07-6	Liquid													>480
		Diketene Acetone (95%)	5394-63-8	Liquid									>480	>480			
		Dimethyl ketal	67-64-1	Liquid	imm					imm	13	462	>480	>480	>480	>480	>480
		Dimethyl ketone	67-64-1	Liquid	imm					imm	13	462	>480	>480	>480	>480	>480
		Hexanone	108-94-1	Liquid							136		>480	>480	>480	>480	>480
		Hexone	108-10-1	Liquid								>480	>480	>480	>480	>480	>480
		Isobutyl methyl ketone	108-10-1	Liquid								>480	>480	>480	>480	>480	>480
		Ketone propane	67-64-1	Liquid	imm					imm	13	462	>480	>480	>480	>480	>480
		MEK	78-93-3	Liquid							18	>480	40*/64	40*/64	40*/64	>480	>480
		Methyl acetyl	67-64-1	Liquid	imm					imm	13	462	>480	>480	>480	>480	>480
		Methyl ethyl ketone	78-93-3	Liquid							18	>480	40*/64	40*/64	40*/64	>480	>480
		Methyl ketone	67-64-1	Liquid	imm					imm	13	462	>480	>480	>480	>480	>480
		Methyl pentan-2-one, 4-	108-10-1	Liquid								>480	>480	>480	>480	>480	>480
		Methyl vinyl ketone	78-94-4	Liquid									>480	>480	>480		

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Chemical Permeation Data Tables

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Pimelic ketone	108-94-1	Liquid							136		>480	>480	>480	>480	>480
		Propan -2-one	67-64-1	Liquid	imm					imm	13	462	>480	>480	>480	>480	>480
		Pyroacetic ether	67-64-1	Liquid	imm					imm	13	462	>480	>480	>480	>480	>480
		Trichloro acetone, 1,1,3- (87.7%)	921-03-9	Liquid									467*/476	467*/476	467*/476		
430																	
	431																
		Acetone cyanohydrin	75-86-5	Liquid									>480	>480	>480	>480	>480
		Acetonitrile	75-05-8	Liquid	imm					imm	60	imm	131	131	>480	>480	>480
		Acrylonitrile	107-13-1	Liquid	imm						36*/48	31	73*/92	73*/92	108	>480	>480
		Adipic acid dinitrile	111-69-3	Liquid								>480	>480	>480	>480	>480	>480
		Adipic acid nitrile	111-69-3	Liquid								>480	>480	>480	>480	>480	>480
		Adiponitrile	111-69-3	Liquid								>480	>480	>480	>480	>480	>480
		Chloro acrylonitrile, 2-	920-37-6	Liquid								146	>480	>480	>480	>480	
		Cyanoethylene	107-13-1	Liquid	imm						36*/48	31	73*/92	73*/92	108	>480	>480
		Cyanomethane	75-05-8	Liquid	imm					imm	60	imm	131	131	>480	>480	>480
		Cyanopropan-2-ol, 2-	75-86-5	Liquid									>480	>480	>480	>480	>480
		Dicyanobutane, 1,4-	111-69-3	Liquid								>480	>480	>480	>480	>480	>480
		Ethane nitrile	75-05-8	Liquid	imm					imm	60	imm	131	131	>480	>480	>480
		Ethyl nitrile	75-05-8	Liquid	imm					imm	60	imm	131	131	>480	>480	>480
		Hydroxy 2-methylpropionitrile, 2-	75-86-5	Liquid									>480	>480	>480	>480	>480
		Hydroxy isobutyronitrile	75-86-5	Liquid									>480	>480	>480	>480	>480
		Methyl 1,5-pentantedinitrile, 2-	4553-62-2	Liquid									>480	>480	>480		
		Methyl 1,5-pentantedinitrile, 2- (87%)	4553-62-2	Liquid												>480	>480
		Methyl cyanide	75-05-8	Liquid	imm					imm	60	imm	131	131	>480	>480	>480
		Pentene nitrile, 2-	13284-42-9	Liquid									>480	>480	>480	>480	
		Pentene nitrile, 3-	4635-87-4	Liquid												>480	>480
		Pentene nitrile, cis-2- (70%)	25899-50-7	Liquid												>480	>480
			107-13-														

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Propenenitrile, 2-	1	Liquid	imm						36*/48	31	73*/92	73*/92	108	>480	>480
		Propenoic acid nitrile	107-13-1	Liquid	imm						36*/48	31	73*/92	73*/92	108	>480	>480
		Vinyl cyanide	107-13-1	Liquid	imm						36*/48	31	73*/92	73*/92	108	>480	>480
	432																
		Benzo nitrile	100-47-0	Liquid								450	>480	>480	>480	>480	>480
		Benzyl cyanide	140-29-4	Liquid								>480	>390	>390	>390		
		Cyanobenzene	100-47-0	Liquid								450	>480	>480	>480	>480	>480
		Phenyl acetonitrile	140-29-4	Liquid								>480	>390	>390	>390		
		Phenyl cyanide	100-47-0	Liquid								450	>480	>480	>480	>480	>480
440																	
	441																
		Nitro benzene	98-95-3	Liquid	imm						59	>480	>480	>480	>480	>480	>480
		Nitro methane	75-52-5	Liquid								>480	233	233	233	>480	>480
		Nitro propane, 2-	79-46-9	Liquid								>480	>480	>480	>480	>480	>480
	442																
		Chloro 2-nitrobenzene, 1-	88-73-3	Solid	15												
		Chloro 2-nitrobenzene, 1- (35-40 °C, molten)	88-73-3	Liquid									>480	>480	>480		
		Dinitro-o-cresol, 4,6- (sat in Methanol)	534-52-1	Liquid												>480	>480
		Dinitrocresol (sat in Methanol)	534-52-1	Liquid												>480	>480
		Hydroxy 2-nitrobenzene, 1- (70 °C, molten)	88-75-5	Liquid							imm					208	208
		Nitro chlorobenzene, p-	100-00-5	Solid	imm												
		Nitro phenol, o- (70 °C, molten)	88-75-5	Liquid							imm					208	208
		Nitro toluene, 2-	88-72-2	Liquid							95		>480	>480		95	
		Nitro toluene, p-	99-99-0	Solid	imm												
450																	
	450																
		Dimethyl nitrosamine	62-75-9	Liquid									>480	>480	>480		
		Methyl N-nitrosomethanamine, N-	62-75-9	Liquid									>480	>480	>480		
460																	

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
	462																
		Dimethyl phosphite	868-85-9	Liquid									>480				
		Ethyl parathion	56-38-2	Liquid												>480	>480
		Malathion	121-75-5	Liquid												>480	>480
		Phosphoric acid trimethyl ester	512-56-1	Liquid												>480	>480
		Sarin (GB), MIL-STD-282 (10 g/m^2)	107-44-8	Liquid							>480[8]	120[8]				>480[8]	>480[8]
		Sarin (GB), MIL-STD-282 (100 g/m^2)	107-44-8	Liquid									>480[8]	>480[8]	>480[8]	>480[8]	>480[8]
		Soman (GD), FINABEL 0.7.C	96-64-0	Liquid									>1400[8]	>1400[8]	>1400[8]		
		Soman (GD), MIL-STD-282 (10 g/m^2)	96-64-0	Liquid								>480[8]				>480[8]	>480[8]
		Soman (GD), MIL-STD-282 (100 g/m^2)	96-64-0	Liquid									>480[8]	>480[8]	>480[8]		>480[8]
		Tabun (GA), FINABEL 0.7.C	77-81-6	Liquid									>1400[8]	>1400[8]	>1400[8]		
		Tabun (GA), MIL-STD-282 (10 g/m^2)	77-81-6	Liquid												>480[8]	>480[8]
		Tabun (GA), MIL-STD-282 (100 g/m^2)	77-81-6	Liquid									>480[8]	>480[8]	>480[8]		>480[8]
		Tributyl phosphate	126-73-8	Liquid									>480				
		Trimethyl phosphate	512-56-1	Liquid												>480	>480
		Trimethyl phosphite	121-45-9	Liquid							210					>480	>480
		VX Nerve Agent, FINABEL 0.7.C	50782-69-9	Liquid									>1400[8]	>1400[8]	>1400[8]		
		VX Nerve Agent, MIL-STD-282 (10 g/m^2)	50782-69-9	Liquid							>480[8]	>480[8]				>480[8]	>480[8]
		VX Nerve Agent, MIL-STD-282 (100 g/m^2)	50782-69-9	Liquid									>480[8]	>480[8]	>480[8]	>480[8]	>480[8]
470																	
	470																
		Butyl stannium trichloride	1118-46-3	Liquid									>480	>480	>480		
		Dimethyl mercury in decane (100 ppm in Decane)	593-74-8	Liquid											>480		
		Lewisite (L), FINABEL 0.7.C	541-25-3	Liquid									>155[8]	>155[8]	>155[8]		

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Lewisite (L), MIL-STD-282 (10 g /m^2)	541-25-3	Liquid							>360[8]	120[8]				>480[8]	>480[8]
		Lewisite (L), MIL-STD-282 (100 g /m^2)	541-25-3	Liquid									360[8]	360[8]	360[8]	120[8]	>480[8]
		Nickel carbonyl	13463-39-3	Liquid													>480
		Tetracarbonylnickel	13463-39-3	Liquid													>480
		Tetraethyl lead	78-00-2	Liquid								>480				>480	>480
		Tetramethyl tin (0.5% in Pentane)	594-27-4	Liquid												>480	>480
		Tin chloride, mono-n-butyl	1118-46-3	Liquid									>480	>480	>480		
		Tin chloride, tri-n-butyl	1461-22-9	Liquid									nm	nm	nm		
		Titanium (IV) isopropoxide	546-68-9	Liquid									>480				
		Vinyl magnesium chloride (15% in Tetrahydrofuran)	3536-96-7	Liquid							imm					imm	
		Vinyl magnesium chloride (16.5% in Tetrahydrofuran)	3536-96-7	Liquid												>480	>480
480																	
	480																
		Dichloro silane	4109-96-0	Vapor												>480	>480
		Dimethyl dichlorosilane	75-78-5	Liquid							46		>480	>480	>480	46	>480
		Hexamethyl disilazane	999-97-3	Liquid							>480					>480	>480
		Hexamethyl disilazane, 1,1,1,3,3,3-	999-97-3	Liquid							>480					>480	>480
		Methyl trichlorosilane	75-79-6	Liquid								>480	>480	>480	>480	>480	>480
		Phenyl trichlorosilane	98-13-5	Liquid							>480		>480	>480	>480	>480	>480
		Silane	7803-62-5	Vapor									>480	>480	>480	>480	>480
		Silicon tetrachloride	10026-04-7	Liquid							35	>480	>480	>480	>480	>480	>480
		Tetraethoxysilane	78-10-4	Liquid												>480	>480
		Trichlor vinylsilane	75-94-5	Liquid							100					100	
		Trichloro phenylsilane	98-13-5	Liquid							>480		>480	>480	>480	>480	>480
		Trichloro silane	10025-78-2	Liquid							60				>480	>480	>480
500																	
	500																

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		2-Methyl-4-isothiazolin-3-one (20%)	2682-20-4	Liquid	>480						>480		>480	>480			
		Benzisothiazol 1,2- (20%)	2634-33-5	Liquid	>480						>480		>480	>480			
	501																
		Benzene thiol	108-98-5	Liquid												>480	>480
		Ethane thiol	75-08-1	Liquid							imm	>480	>480	>480	>480	>480	>480
		Ethyl mercaptan	75-08-1	Liquid							imm	>480	>480	>480	>480	>480	>480
		Hydroxy 1-ethanethiol, 2-	60-24-2	Liquid									>480	>480	>480		>480
		Mercapto acetic acid	68-11-1	Liquid								>480	>480	>480	>480	>480	>480
		Mercapto ethanol	60-24-2	Liquid									>480	>480	>480		>480
		Methanethiol	74-93-1	Vapor								>480	>480	>480	>480	>480	>480
		Methyl mercaptan	74-93-1	Vapor								>480	>480	>480	>480	>480	>480
		Phenyl mercaptan	108-98-5	Liquid												>480	>480
		Thioalkohol	75-08-1	Liquid							imm	>480	>480	>480	>480	>480	>480
		Thioglycolic acid	68-11-1	Liquid								>480	>480	>480	>480	>480	>480
		Thiophenol	108-98-5	Liquid												>480	>480
	502																
		Carbon disulfide	75-15-0	Liquid	imm					imm	imm	imm	>480	>480	>480	>480	>480
		Chlorine sulfide	10545-99-0	Liquid													440
		Chlorine sulfide (80%)	10545-99-0	Liquid								imm				70	>480
		Dimethyl sulfide	75-18-3	Liquid								>480	271	271	271		
		Disulphur dichloride	10025-67-9	Liquid												>480	>480
		Hydrogen sulfide	7783-06-4	Vapor								imm			>480	>480	>480
		Sulfur Mustard (HD), FINABEL 0.7.C	505-60-2	Liquid									>1400[8]	>1400[8]	>1400[8]		
		Sulfur Mustard (HD), MIL-STD-282 (10 g/m^2)	505-60-2	Liquid							>480[8]	120[8]				>480[8]	>480[8]
		Sulfur Mustard (HD), MIL-STD-282 (100 g/m^2)	505-60-2	Liquid									>480[8]	>480[8]	>480[8]	>480[8]	>480[8]
		Sulfur monochloride	10025-67-9	Liquid												>480	>480
		Sulphur dichloride	10545-99-0	Liquid													440
			10545-														

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					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Sulphur dichloride (80%)	99-0	Liquid								imm				70	>480
	503																
		Dimethyl sulfoxide	67-68-5	Liquid								>480	>480	>480	>480	>480	>480
	504																
		Chlorsulfonic acid	7790-94-5	Liquid						41	>480	330	>480	>480	17	>480	>480
		Ethansulphonic acid (70%)	594-45-6	Liquid									>480	>480			
		Methanesulphonic acid	75-75-2	Liquid									>480	>480	>480		
		Methanesulphonic acid (70%)	75-75-2	Liquid							>480					>480	
		Trifluoro methansulfonic acid	1493-13-6	Liquid							>480		>480	>480	>480	>480	>480
	505																
		Benzene sulfone chloride	98-09-9	Liquid								>480	>480	>480	>480	>480	>480
		Benzene sulfonyl chloride	98-09-9	Liquid								>480	>480	>480	>480	>480	>480
		Methanesulfonyl chloride	124-63-0	Liquid									>480	>480	>480	>480	>480
	507																
		Diethyl sulfate	64-67-5	Liquid								>480	>480	>480	>480		>480
		Dimethyl sulfate	77-78-1	Liquid		imm	imm				>480	>480	>480	>480	>480	>480	>480
		Sodium bisulphite (38-40%)	7631-90-5	Liquid							>480		>480	>480			
		Sulfuric acid diethyl ester	64-67-5	Liquid								>480	>480	>480	>480		>480
		Sulfuric acid dimethyl ester	77-78-1	Liquid		imm	imm				>480	>480	>480	>480	>480	>480	>480
	509																
		2-Methyl-4-isothiazolin-3-one (20%)	2682-20-4	Liquid	>480						>480		>480	>480			
		Amido sulfonic acid (15%)	5329-14-6	Liquid	>480								>480	>480		>480	>480
		Benzisothiazol 1,2- (20%)	2634-33-5	Liquid	>480						>480		>480	>480			
		Brom thiophene, 2-	1003-09-4	Liquid									>480	>480			
		Sulfamic acid (15%)	5329-14-6	Liquid	>480								>480	>480		>480	>480
		Sulfamidic acid (15%)	5329-14-6	Liquid	>480								>480	>480		>480	>480
		Sulfur hexafluoride	2551-62-4	Vapor												>480	>480
550																	
	550																
			127-09-														

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Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Sodium acetate (sat)	3	Liquid		>480	>480										
		Sodium methylate (50% in Methanol)	124-41-4	Liquid												>480	>480
		Tetraethyl ammonium hydroxide (35%)	77-98-5	Liquid							>480					>480	
		Tetramethyl ammonium hydroxide (25%)	75-59-2	Liquid	>480						>480		>480	>480	>480		>480
590																	
	590																
		Black Liquor (mix)	mix	Liquid	>480					>480	>480	>480	>480	>480	>480	>480	>480
		Boron fluoride ethyl ether	109-63-7	Liquid									>480	>480	>480		>480
		Boron trifluoride diethyl etherate	109-63-7	Liquid									>480	>480	>480		>480
		Boron trifluoride dimethyl etherate	353-42-4	Liquid								>480	>480	>480	>480		
		Boron trifluoride etherate	109-63-7	Liquid									>480	>480	>480		>480
		Chemguard S-764P14A	mix	Liquid	>480						>480		>480	>480			
		Chemidize 727 ND (mix)	mix	Liquid							>480					>480	
		Dahlgren Decon solution	mix	Liquid									>480	>480	>480		
		Dowtherm Heat Transfer Fluid	mix	Liquid								>480	>480	>480			
		DuPont Activator 193S (mix)	mix	Liquid	>480												
		DuPont Activator 4505S (mix)	mix	Liquid	>480												
		DuPont Activator 4507S (mix)	mix	Liquid	>480												
		Green Liquor (mix)	mix	Liquid	>480					>480	>480	>480	>480	>480	>480	>480	>480
		Skydrol 4D	mix	Liquid							>480						
		Skydrol 5	mix	Liquid							>480						
		Skydrol PE-5	mix	Liquid							>480						
		Spectracide® (50% Malathion, 44% Aromatic Solvent)	mix	Liquid	imm						>480						
		White Liquor	mix	Liquid	>480					>480	>480	>480	>480	>480	>480	>480	>480
		t-Sodium-amylate / t-amyl alcohol (mix)	mix	Liquid												120	120
990																	
	991																
		Carboplatin (10 mg/ml)	41575-94-4	Liquid		>240	>240	>240	>240								
		Carmustine (3.3 mg/ml, 10 % Ethanol)	154-93-8	Liquid	>240	imm	imm	>240	imm								
		Cisplatin (1 mg/ml)	15663-27-1	Liquid		>240	>240	>240	>240								

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Chemical Permeation Data Tables

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)												
					Tychem® 2000	Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS	Tychem® 2000 SFR	Tychem® 4000	Tychem® 5000	Tychem® 6000	Tychem® 6000 SFR	Tychem® 6000 FR	Tychem® RESPONDER® CSM	Tychem® 10000
		Cyclo phosphamide (20 mg/ml)	50-18-0	Liquid	>240	>240	>240	>240	>10								
		Doxorubicin HCl (2 mg/ml)	25136-40-9	Liquid	>240	>240	>240	>240	>240								
		Etoposide (Toposar®, Teva) (20 mg/ml, 33.2 % (v/v) Ethanol)	33419-42-0	Liquid	>240	>240	>240	>240	>240								
		Fluorouracil, 5- (50 mg/ml)	51-21-8	Liquid	>240	imm	imm	>240	imm								
		Ganciclovir (3 mg/ml)	82410-32-0	Liquid		>240	>240										
		Gemcitabine (38 mg/ml)	95058-81-4	Liquid		>60	>60	>240	>60								
		Ifosfamide (50 mg/ml)	3778-73-2	Liquid		imm	imm	>240	imm								
		Irinotecan (20 mg/ml)	100286-90-6	Liquid		>240	>240										
		Methotrexate (25 mg/ml, 0.1 N NaOH)	59-05-2	Liquid		>240	>240	>240									
		Mitomycin (0.5 mg/ml)	50-07-7	Liquid		>240	>240	>240									
		Oxaliplatin (5 mg/ml)	63121-00-6	Liquid		imm	imm	>240	imm								
		Paclitaxel (Hospira) (6 mg/ml, 49.7 % (v/v) Ethanol)	33069-62-4	Liquid	>240	>240	>240	>240	>240								
		Sodium chloride (9 g/l)	7647-14-5	Liquid		>240	>240										
		Thiotepa (10 mg/ml)	52-24-4	Liquid	>240	imm	imm	>240	imm								
		Vincristine sulfate (1 mg/ml)	2068-78-2	Liquid		>240	>240										
		Vinorelbine (0.1 mg/ml)	71486-22-1	Liquid		>240	>240										

> = greater than imm. = immediate (<10 minutes) {empty} = not tested L = Liquid G = Gas S = Solid

* Actual breakthrough time; normalized breakthrough time is not available.

** Solid tested, vapor phase permeation measured.

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Permeation data for Tyvek® Plus and Tyvek® Xpert

DuPont™ Tyvek® fabric provides an ideal balance of protection, durability and comfort. Tyvek® garments are composed of flash spun high density polyethylene fabric which creates a unique, nonwoven material available only from DuPont.

Tyvek® Plus and Tyvek® Xpert garments use a special type of Tyvek® fabric which has different physical properties and improved chemical resistance properties when compared to fabric used in standard Tyvek® garments.

Tyvek® Xpert garments have external sewn seams where the seam thread is visible on the outside of the garment. This seam design, when coupled with the enhanced fabric, offers improved overall garment protection levels. Tyvek® Xpert garments are CE certified to Types 5 & 6 (light liquid aerosols and airborne solid particles).

Tyvek® Plus garments have sewn seams which are over-taped. This seam design, when coupled with the enhanced fabric, offers further improved overall garment protection levels. Tyvek® Plus garments are CE certified to Types 4, 5 & 6 (light and heavy liquid aerosols and airborne solid particles).

NOTE

The permeation data provided in the following table only applies to Tyvek® Xpert and Tyvek® Plus garment fabrics.

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Chemical Permeation Data Table

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)			
					Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS
100								
	102							
		Acetic acid (10%)	64-19-7	Liquid			imm	
		Acetic acid (2%)	64-19-7	Liquid			imm	
		Acetic acid (30%)	64-19-7	Liquid	imm	imm	imm	
		Acetic acid (5%)	64-19-7	Liquid			imm	
		Formic acid (30%)	64-18-6	Liquid	imm	imm		
120								
	121							
		Formaldehyde (10%)	50-00-0	Liquid			imm	
		Formalin (10%)	50-00-0	Liquid			imm	
270								
	271							
		Nicotine (9 mg/ml)	54-11-5	Liquid	>480	>480		
290								
	292							
		Benzene (100 ppm, Gas)	71-43-2	Vapor		>480		
		Benzene (400 ppm, Gas)	71-43-2	Vapor		>480		
300								
	301							
		Hydrogen peroxide (10%)	7722-84-1	Liquid	>10	>10		
		Hydrogen peroxide (30%)	7722-84-1	Liquid	imm	imm		
310								
	311							
		Ethanol	64-17-5	Liquid			imm	
		Ethyl alcohol	64-17-5	Liquid			imm	
		Spiritus	64-17-5	Liquid			imm	
	312							
		Isopropanol	67-63-0	Liquid			imm	

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Chemical Permeation Data Table

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)			
					Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS
		Isopropanol (70%)	67-63-0	Liquid			imm	
		Isopropyl alcohol	67-63-0	Liquid			imm	
		Isopropyl alcohol (70%)	67-63-0	Liquid			imm	
		Propan -2-ol	67-63-0	Liquid			imm	
		Propan -2-ol (70%)	67-63-0	Liquid			imm	
	314							
		Ethane 1,2-diol	107-21-1	Liquid	imm	imm	imm	
		Ethylene glycol	107-21-1	Liquid	imm	imm	imm	
		Glycerine	56-81-5	Liquid	>480	>480		
		Glycerol	56-81-5	Liquid	>480	>480		
		Glycol alcohol	107-21-1	Liquid	imm	imm	imm	
		Propane -1,2,3-triol	56-81-5	Liquid	>480	>480		
340								
	340							
		Potassium chromate (sat)	7789-00-6	Liquid	>480	>480		
		Sodium hypochlorite (10-15 % active chlorine)	7681-52-9	Liquid	>240	>240	>480	
		Sodium hypochlorite (5.25-6%)	7681-52-9	Liquid	>480	>480	>480	
350								
	350							
		Hydrofluoric acid (10%)	7664-39-3	Liquid			imm	
370								
	370							
		Hydrochloric acid (16%)	7647-01-0	Liquid	imm	imm	imm	
		Hydrochloric acid (32%)	7647-01-0	Liquid	imm	imm	imm	
		Hydrofluoric acid (10%)	7664-39-3	Liquid			imm	
		Nitric acid (10%)	7697-37-2	Liquid	>120	>120		
		Nitric acid (30%)	7697-37-2	Liquid	imm	imm	imm	
		Phosphoric acid (50%)	7664-38-2	Liquid	>480	>480	>480	
		Sulfuric acid (18%)	7664-93-9	Liquid	>240	>240	>480	

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Chemical Permeation Data Table

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)			
					Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS
		Sulfuric acid (30%)	7664-93-9	Liquid	>240	>240	>480	
		Sulfuric acid (50%)	7664-93-9	Liquid	>30	>30		
380								
	380							
		Ammonium hydroxide (16%)	1336-21-6	Liquid	imm	imm	imm	
		Ammonium hydroxide (28% - 30%)	1336-21-6	Liquid	imm	imm		
		Caustic ammonia (16%)	1336-21-6	Liquid	imm	imm	imm	
		Caustic ammonia (28% - 30%)	1336-21-6	Liquid	imm	imm		
		Caustic soda (10%)	1310-73-2	Liquid	>480	>480	>480	
		Caustic soda (40%)	1310-73-2	Liquid	>30	>30		
		Caustic soda (50%)	1310-73-2	Liquid	>30	>30	>480	
		Caustic soda (>95%, solid)	1310-73-2	Solid	>480	>480		
		Potassium hydroxide (40%)	1310-58-3	Liquid	imm	imm	>120	
		Sodium hydroxide (10%)	1310-73-2	Liquid	>480	>480	>480	
		Sodium hydroxide (40%)	1310-73-2	Liquid	>30	>30		
		Sodium hydroxide (50%)	1310-73-2	Liquid	>30	>30	>480	
		Sodium hydroxide (>95%, solid)	1310-73-2	Solid	>480	>480		
500								
	507							
		Dimethyl sulfate	77-78-1	Liquid	imm	imm		
		Sulfuric acid dimethyl ester	77-78-1	Liquid	imm	imm		
550								
	550							
		Sodium acetate (sat)	127-09-3	Liquid	>480	>480		
990								
	991							
		Carboplatin (10 mg/ml)	41575-94-4	Liquid	>240	>240	>240	>240
		Carmustine (3.3 mg/ml, 10 % Ethanol)	154-93-8	Liquid	imm	imm	>240	imm

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Chemical Permeation Data Table

Class	Sub-Class	Chemical Name	CAS	Phase	Breakthrough Time (Minutes)			
					Tyvek® 500	Tyvek® 600	Tyvek® 800	Tyvek® IsoClean® CS
		Cisplatin (1 mg/ml)	15663-27-1	Liquid	>240	>240	>240	>240
		Cyclo phosphamide (20 mg/ml)	50-18-0	Liquid	>240	>240	>240	>10
		Doxorubicin HCl (2 mg/ml)	25136-40-9	Liquid	>240	>240	>240	>240
		Etoposide (Toposar®, Teva) (20 mg/ml, 33.2 % (v/v) Ethanol)	33419-42-0	Liquid	>240	>240	>240	>240
		Fluorouracil, 5- (50 mg/ml)	51-21-8	Liquid	imm	imm	>240	imm
		Ganciclovir (3 mg/ml)	82410-32-0	Liquid	>240	>240		
		Gemcitabine (38 mg/ml)	95058-81-4	Liquid	>60	>60	>240	>60
		Ifosfamide (50 mg/ml)	3778-73-2	Liquid	imm	imm	>240	imm
		Irinotecan (20 mg/ml)	100286-90-6	Liquid	>240	>240		
		Methotrexate (25 mg/ml, 0.1 N NaOH)	59-05-2	Liquid	>240	>240	>240	
		Mitomycin (0.5 mg/ml)	50-07-7	Liquid	>240	>240	>240	
		Oxaliplatin (5 mg/ml)	63121-00-6	Liquid	imm	imm	>240	imm
		Paclitaxel (Hospira) (6 mg/ml, 49.7 % (v/v) Ethanol)	33069-62-4	Liquid	>240	>240	>240	>240
		Sodium chloride (9 g/l)	7647-14-5	Liquid	>240	>240		
		Thiotepa (10 mg/ml)	52-24-4	Liquid	imm	imm	>240	imm
		Vincristine sulfate (1 mg/ml)	2068-78-2	Liquid	>240	>240		
		Vinorelbine (0.1 mg/ml)	71486-22-1	Liquid	>240	>240		

> = greater than imm. = immediate (<10 minutes) {empty} = not tested L = Liquid G = Gas S = Solid

* Actual breakthrough time; normalized breakthrough time is not available.

** Solid tested, vapor phase permeation measured.

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APPENDIX
CHEMICAL INDEX - Alphabetical Listing - Chemical Names and Synonyms

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
109-55-7	1,3-Propanediamine, N,N'-Dimethyl		140	148
109-65-9	1-Bromobutane	Butyl bromide	260	261
696-59-3	2,5-Dimethoxytetrahydrofuran		270	277
696-59-3	2,5-Dimethoxytetrahydrofuran		240	241
112-34-5	2-(2-Butoxyethoxy) ethanol	Diethylene glycol monobutyl ether	310	311
112-34-5	2-(2-Butoxyethoxy) ethanol	Diethylene glycol monobutyl ether	240	245
111-90-0	2-(2-Ethoxyethoxy) ethanol		240	245
75-85-4	2-Methyl-2-Butanol	2-Methyl-2-Butanol::Amyl alcohol, tert-	310	313
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	270	270
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	390	390
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	270	274
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	500	509
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	500	500
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	390	391
96-47-9	2-Methyltetrahydrofuran		240	241
96-47-9	2-Methyltetrahydrofuran		270	277
75-07-0	Acetaldehyde		120	121
64-19-7	Acetic acid		100	102
111-15-9	Acetic acid 2 ethoxy ethyl ester	Acetic acid 2 ethoxy ethyl ester::Ethyl glycol acetate::Ethylene glycol mono ethyl ether acetate	240	245
110-49-6	Acetic acid 2 methoxy ethyl ester	Acetic acid 2 methoxy ethyl ester:: Ethylene glycol monomethyl ether acetate	240	245
108-05-4	Acetic acid ethenyl ester	Acetic acid ethenyl ester	220	222
141-78-6	Acetic acid ethyl ester	Acetic acid ethyl ester	220	222
628-63-7	Acetic acid pentyl ester	Acetic acid pentyl ester::Amyl ester acetic acid::Pentyl acetate	220	222
108-24-7	Acetic anhydride		160	161
75-36-5	Acetic chloride	Acetic chloride::Ethanoyl chloride	110	111
67-64-1	Acetone	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone:: Propan -2-one::Pyroacetic ether	390	391
75-86-5	Acetone cyanohydrin	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	310	313
75-86-5	Acetone cyanohydrin	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	430	431
75-05-8	Acetonitrile	Cyanomethane::Ethane nitrile::Ethyl nitrile::Methyl cyanide	430	431
13831-31-7	Acetoxyacetyl Chloride		110	111
75-36-5	Acetyl chloride	Acetic chloride::Ethanoyl chloride	110	111
79-10-7	Acroleic acid	Acroleic acid::Ethylene carboxylic acid:: Propene acid	100	102
107-02-8	Acrolein	Prop-2-en-1-al	120	121
79-06-1	Acrylamide	Acrylicamide::Propenamide	130	135
79-10-7	Acrylic acid	Acroleic acid::Ethylene carboxylic acid:: Propene acid	100	102
140-88-5	Acrylic acid ethyl ester	Acrylic acid ethyl ester	220	223
141-32-2	Acrylic acid n-butyl ester	Acrylic acid n-butyl ester::Propenoic acid butyl ester, 2-	220	223
79-06-1	Acrylicamide	Acrylicamide::Propenamide	130	135
107-13-1	Acrylonitrile	Cyanoethylene::Propenenitrile, 2-:: Propenoic acid nitrile::Vinyl cyanide	430	431
814-68-6	Acryloyl Chloride		110	111
111-69-3	Adipic acid dinitrile	Adipic acid dinitrile::Adipic acid nitrile::	430	431

CAS Number	Chemical Name	Synonym	Class	Sub-Class
5329-14-6	Amido sulfonic acid	Amido sulfonic acid::Sulfamidic acid	500	509
5329-14-6	Amido sulfonic acid	Amido sulfonic acid::Sulfamidic acid	370	370
75-64-9	Amino 2-methylpropane, 2-	Amino 2-methylpropane, 2-::Trimethyl aminomethane	140	143
95-76-1	Amino 3,4-dichlorobenzene, 1-	Amino 3,4-dichlorobenzene, 1-	140	145
95-76-1	Amino 3,4-dichlorobenzene, 1-	Amino 3,4-dichlorobenzene, 1-	260	263
62-53-3	Amino benzene	Amino benzene::Benzenamine::Phenyl amine	140	145
92-67-1	Amino diphenyl, 4-		140	145
141-43-5	Amino ethanol, 2-	Amino ethanol, 2-	310	311
141-43-5	Amino ethanol, 2-	Amino ethanol, 2-	140	141
111-41-1	Amino ethylethanolamine		140	142
111-41-1	Amino ethylethanolamine		310	311
111-41-1	Amino ethylethanolamine		140	148
140-31-8	Amino ethylpiperazine		270	274
140-31-8	Amino ethylpiperazine		140	148
140-31-8	Amino ethylpiperazine		140	141
75-31-0	Amino propane, 2-	Amino propane, 2-	140	141
504-29-0	Amino pyridine, 2-		270	271
7664-41-7	Ammonia		380	380
7664-41-7	Ammonia		350	350
1341-49-7	Ammonium bifluoride	Ammonium hydrogendifluoride	350	350
1341-49-7	Ammonium bifluoride	Ammonium hydrogendifluoride	340	340
12125-02-9	Ammonium chloride		340	340
12125-01-8	Ammonium fluoride		340	340
1341-49-7	Ammonium hydrogendifluoride	Ammonium hydrogendifluoride	340	340
1341-49-7	Ammonium hydrogendifluoride	Ammonium hydrogendifluoride	350	350
1336-21-6	Ammonium hydroxide	Caustic ammonia	380	380
628-63-7	Amyl acetate, n-	Acetic acid pentyl ester::Amyl ester acetic acid::Pentyl acetate	220	222
71-41-0	Amyl alcohol	Amyl alcohol	310	311
75-85-4	Amyl alcohol, tert-	2-Methyl-2-Butanol::Amyl alcohol, tert-	310	313
628-63-7	Amyl ester acetic acid	Acetic acid pentyl ester::Amyl ester acetic acid::Pentyl acetate	220	222
461-82-5	Anilin, 4-Trifluoromethoxy-		140	145
62-53-3	Aniline	Amino benzene::Benzenamine::Phenyl amine	140	145
120-12-7	Anthracene	Anthracin	290	293
120-12-7	Anthracin	Anthracin	290	293
7647-18-9	Antimony pentachloride	Pentachloroantimony	360	360
8007-56-5	Aqua regia	Aqua regia	370	370
7784-34-1	Arsenic (III) chloride	Arsenic trichloride	340	340
7784-34-1	Arsenic trichloride	Arsenic trichloride	340	340
7784-42-1	Arsine		350	350
151-56-4	Aziridine	Aziridine	270	274
123-75-1	Azolidine	Azolidine	270	274
100-52-7	Benzaldehyde	Benzaldehyde	120	122
62-53-3	Benzenamine	Amino benzene::Benzenamine::Phenyl amine	140	145
71-43-2	Benzene		290	292
98-88-4	Benzene carbonyl chloride	Benzene carbonyl chloride	110	112

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111-69-3	Adipic acid dinitrile	Adipyl dinitrile::Dicyanobutane, 1,4-	430	431
111-69-3	Adipic acid nitrile	Adipic acid dinitrile::Adipic acid nitrile:: Adipyl dinitrile::Dicyanobutane, 1,4-	430	431
111-69-3	Adiponitrile	Adipic acid dinitrile::Adipic acid nitrile:: Adipyl dinitrile::Dicyanobutane, 1,4-	430	431
107-18-6	Allyl alcohol	Hydroxy propene::Propen 1-ol, 2-::Vinyl carbinol	310	311
107-05-1	Allyl chloride	Chlor allylene::Chloro prene, 3-	260	265

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APPENDIX
CHEMICAL INDEX - Alphabetical Listing - Chemical Names and Synonyms

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
98-09-9	Benzene sulfone chloride	Benzene sulfone chloride	500	505
98-09-9	Benzene sulfonyl chloride	Benzene sulfone chloride	500	505
108-98-5	Benzene thiol	Benzene thiol::Thiophenol	500	501
328-84-7	Benzene, Dichloro-4-Trifluoro		260	263
92-87-5	Benzidine	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	145
92-87-5	Benzidine	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	149
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	270	274
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	500	500
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	390	390
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	500	509
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	270	270
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	390	391
100-47-0	Benzo nitrile	Cyanobenzene::Phenyl cyanide	430	432
98-07-7	Benzo trichloride		260	263
98-88-4	Benzoyl chloride	Benzene carbonyl chloride	110	112
100-51-6	Benzyl alcohol	Hydroxy toluene	310	312
100-44-7	Benzyl chloride	Chloro toluene, alpha-	260	266
501-53-1	Benzyl chloro formate		110	113
140-29-4	Benzyl cyanide	Phenyl acetonitrile	430	432
103-67-3	Benzyl methylamine, N-	Methyl benzylamine, N-	140	146
103-67-3	Benzyl methylamine, N-	Methyl benzylamine, N-	290	292
92-87-5	Biphenyl 4,4'-diamine, 1,1'-	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	149
92-87-5	Biphenyl 4,4'-diamine, 1,1'-	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	145
1675-54-3	Bis (4-(2,3-epoxypropoxy)phenyl)propane	Bis (4-(2,3-epoxypropoxy)phenyl) propane::Isopropylidenediphenol diglycidyl ether, 4,4'-	270	275
1675-54-3	Bis phenol A diglycidyl ether	Bis (4-(2,3-epoxypropoxy)phenyl) propane::Isopropylidenediphenol diglycidyl ether, 4,4'-	270	275
mix	Black Liquor		590	590
109-63-7	Boron fluoride ethyl ether	Boron fluoride ethyl ether::Boron trifluoride diethyl etherate	590	590
10294-34-5	Boron trichloride		350	350
10294-34-5	Boron trichloride		360	360
7637-07-2	Boron trifluoride		350	350
7637-07-2	Boron trifluoride		360	360
109-63-7	Boron trifluoride diethyl etherate	Boron fluoride ethyl ether::Boron trifluoride diethyl etherate	590	590
353-42-4	Boron trifluoride dimethyl etherate		590	590
109-63-7	Boron trifluoride etherate	Boron fluoride ethyl ether::Boron trifluoride diethyl etherate	590	590
1003-09-4	Brom thiophene, 2-		500	509
7726-95-6	Bromine		330	330
10035-10-6	Bromine hydrogen	Bromine hydrogen	370	370
10035-10-6	Bromine hydrogen	Bromine hydrogen	350	350
460-00-4	Bromo 4-fluorobenzene, 1-	Bromo 4-fluorobenzene, 1-	260	263
460-00-4	Bromo fluorobenzene, 4-	Bromo 4-fluorobenzene, 1-	260	263
74-83-9	Bromo methane	Bromo methane	260	261

CAS Number	Chemical Name	Synonym	Class	Sub-Class
106-99-0	Butadiene, 1,3-	Vinyl ethylene	290	296
123-72-8	Butanal, n-	Butyraldehyde, n-	120	121
71-36-3	Butanol, 1-	Butanol, n-::Butyl alcohol, n-	310	311
71-36-3	Butanol, n-	Butanol, n-::Butyl alcohol, n-	310	311
75-65-0	Butanol, tert-	Methyl propan-2-ol, 2-	310	313
78-93-3	Butanone	Butanone::MEK	390	391
96-29-7	Butanone oxime, 2-	Butanone oxime, 2-	150	150
123-73-9	Butenal, 2-	Butenal, 2-::Ethane diol dipropanoate, 1,2-::Methyl acrolein::Propylene aldehyde	120	121
111-76-2	Butoxy ethanol, 2-	Ethylene glycol monobutyl ether	240	245
143-22-6	Butoxytriglycol		240	245
123-86-4	Butyl acetate, n-		220	222
141-32-2	Butyl acrylate, n-	Acrylic acid n-butyl ester::Propenoic acid butyl ester, 2-	220	223
71-36-3	Butyl alcohol, n-	Butanol, n-::Butyl alcohol, n-	310	311
109-73-9	Butyl amine		140	141
75-64-9	Butyl amine, tert-	Amino 2-methylpropane, 2-::Trimethyl aminomethane	140	143
112-07-2	Butyl Cellosolve Acetate		240	245
29911-28-2	Butyl Dipropasol Solvent		240	245
142-96-1	Butyl ether, n-		240	241
1118-46-3	Butyl stannium trichloride	Butyl stannium trichloride	470	470
592-34-7	Butylchloroformate		110	113
592-34-7	Butylchloroformate		260	260
592-34-7	Butylchloroformate		220	221
123-72-8	Butyraldehyde, n-	Butyraldehyde, n-	120	121
107-92-6	Butyric Acid		100	102
10112-91-1	Calomel	Calomel	340	340
75-15-0	Carbon disulfide		500	502
630-08-0	Carbon monoxide		350	350
56-23-5	Carbon tetrachloride	Tetrachloro methane	260	261
75-73-0	Carbon tetrafluoride	Carbon tetrafluoride	260	261
41575-94-4	Carboplatin		990	991
68476-30-2	Carburant n° 2	Carburant n° 2	290	291
154-93-8	Carmustine		990	991
1336-21-6	Caustic ammonia	Caustic ammonia	380	380
1310-73-2	Caustic soda	Caustic soda	380	380
110-80-5	Cellosolve acetate	Cellosolve acetate::Ethyl Cellosolve®::Ethylene glycol monoethyl ether	240	245
mix	Chemguard S-764P14A	Chemguard S-764P14A	590	590
mix	Chemidize 727 ND		590	590
107-05-1	Chlor allylene	Chlor allylene::Chloro prene, 3-	260	265
76-06-2	Chlor trinitromethan	Chloro picrin::Nitro chlormethan	260	261
57-74-9	Chlordane		260	261
7782-50-5	Chlorine		350	350
7782-50-5	Chlorine		330	330
10545-99-0	Chlorine sulfide	Sulphur dichloride	500	502
7790-91-2	Chlorine trifluoride		350	350
96-24-2	Chloro 1,2-propanediol, 3-		310	314

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927-68-4	Bromoethyl Acetate, 2-		220	222
927-68-4	Bromoethyl Acetate, 2-		260	261
75-25-2	Bromoform		260	261
78-94-4	But-3-en-2-one	But-3-en-2-one	390	391

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APPENDIX
CHEMICAL INDEX - Alphabetical Listing - Chemical Names and Synonyms

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
95-49-8	Chloro 1-methylbenzene, 2-	Chloro 1-methylbenzene, 2-	310	316
95-49-8	Chloro 1-methylbenzene, 2-	Chloro 1-methylbenzene, 2-	260	263
106-89-8	Chloro 2,3-epoxy propane, 1-	Chloro 2,3-epoxy propane, 1-	270	275
106-89-8	Chloro 2,3-epoxy propane, 1-	Chloro 2,3-epoxy propane, 1-	260	261
88-73-3	Chloro 2-nitrobenzene, 1-	Chloro 2-nitrobenzene, 1-	260	263
88-73-3	Chloro 2-nitrobenzene, 1-	Chloro 2-nitrobenzene, 1-	440	442
79-11-8	Chloro acetic acid		100	103
78-95-5	Chloro acetone	Chloro propan-2-one, 1-	390	391
79-04-9	Chloro acetyl chloride		110	111
920-37-6	Chloro acrylonitrile, 2-		260	264
920-37-6	Chloro acrylonitrile, 2-		430	431
106-47-8	Chloro aniline, p-	Chloro benzenamine, 4-	140	145
106-47-8	Chloro benzenamine, 4-	Chloro benzenamine, 4-	140	145
108-90-7	Chloro benzene	Phenyl chloride	260	263
5216-25-1	Chloro benzotrichloride, 4-		260	263
98-56-6	Chloro benzotrifluoride, 4-		260	263
107-07-3	Chloro ethanol, 2-	Ethylene chlorohydrin::Glycol chlorohydrin	260	261
107-07-3	Chloro ethanol, 2-	Ethylene chlorohydrin::Glycol chlorohydrin	310	315
75-01-4	Chloro ethene	Chloro ethene	260	264
107-30-2	Chloro methyl methyl ether	Methoxy chloromethane	240	241
106-48-9	Chloro phenol, p-	Hydroxy chlorobenzene	310	316
106-48-9	Chloro phenol, p-	Hydroxy chlorobenzene	260	263
76-06-2	Chloro picrin	Chloro picrin::Nitro chlormethan	260	261
107-05-1	Chloro prene, 3-	Chlor allylene::Chloro prene, 3-	260	265
78-95-5	Chloro propan-2-one, 1-	Chloro propan-2-one, 1-	390	391
100-44-7	Chloro toluene, alpha-	Chloro toluene, alpha-	260	266
95-49-8	Chloro toluene, o-	Chloro 1-methylbenzene, 2-	260	263
95-49-8	Chloro toluene, o-	Chloro 1-methylbenzene, 2-	310	316
105-39-5	Chloroacetic ethylester		220	222
67-66-3	Chloroform	Trichloro methane	260	261
7790-94-5	Chlorsulfonic acid		370	370
7790-94-5	Chlorsulfonic acid		500	504
1333-82-0	Chromic acid (CrO3)		370	370
15663-27-1	Cisplatin		990	991
77-92-9	Citric acid	Hydroxy 1,2,3-propanetricarboxylic acid, 2-	100	104
68956-56-9	Citrus Terpenes Mixture		140	148
8001-58-9	Creosote		310	316
95-48-7	Cresol o-	Hydroxy toluene, o-	310	316
1319-77-3	Cresols, mixed isomers	Cresylic acid::Methyl phenols	310	316
1319-77-3	Cresylic acid	Cresylic acid::Methyl phenols	310	316
123-73-9	Croton aldehyde	Butenal, 2-::Ethane diol dipropanoate, 1,2-::Methyl acrolein::Propylene aldehyde	120	121
8002-05-9	Crude oil	Mineral oil::Crude oil, California	290	294
8002-05-9	Crude oil	Mineral oil::Crude oil, California	290	291
8002-05-9	Crude oil, California	Mineral oil::Crude oil, California	290	291
8002-05-9	Crude oil, California	Mineral oil::Crude oil, California	290	294

CAS Number	Chemical Name	Synonym	Class	Sub-Class
98-82-8	Cumene	Isopropyl benzene::Phenyl propane, 2-	290	292
420-04-2	Cyanamide		130	132
108-77-0	Cyanide chloride	Trichloro 1,3,5-triazine, 2,4,6-	270	274
108-77-0	Cyanide chloride	Trichloro 1,3,5-triazine, 2,4,6-	260	263
100-47-0	Cyanobenzene	Cyanobenzene::Phenyl cyanide	430	432
107-13-1	Cyanoethylene	Cyanoethylene::Propenenitrile, 2-:: Propenoic acid nitrile::Vinyl cyanide	430	431
75-05-8	Cyanomethane	Cyanomethane::Ethane nitrile::Ethyl nitrile::Methyl cyanide	430	431
75-86-5	Cyanopropan-2-ol, 2-	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	310	313
75-86-5	Cyanopropan-2-ol, 2-	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	430	431
110-82-7	Cyclo hexane		290	291
108-94-1	Cyclo hexanone	Hexanone::Pimelic ketone	390	391
3173-53-3	Cyclo hexyl isocanyte		210	211
1552-12-1	Cyclo octadiene		290	296
50-18-0	Cyclo phosphamide		990	991
108-93-0	Cyclohexanol	Hexalin	310	312
mix	Dahlgren Decon solution	Dahlgren Decon solution	590	590
117-81-7	DEHP	DEHP	220	226
108-83-8	Di Isobutyl Ketone	Dimethyl-4-Heptanone, 2,6-	390	391
123-42-2	Diacetone Alcohol		390	391
13360-57-1	Diamino sulfo chloride		260	261
92-87-5	Diaminobiphenyl, 4,4'-	Biphenyl 4,4'-diamine, 1,1'-:: Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	149
92-87-5	Diaminobiphenyl, 4,4'-	Biphenyl 4,4'-diamine, 1,1'-:: Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	145
92-87-5	Diaminodiphenyl, p-	Biphenyl 4,4'-diamine, 1,1'-:: Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	149
92-87-5	Diaminodiphenyl, p-	Biphenyl 4,4'-diamine, 1,1'-:: Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	145
101-77-9	Diaminodiphenylmethane, 4,4'-	Diaminodiphenylmethane, 4,4'-	140	145
101-77-9	Diaminodiphenylmethane, 4,4'-	Diaminodiphenylmethane, 4,4'-	140	149
107-15-3	Diaminoethane, 1,2-	Diaminoethane, 1,2-	140	148
19287-45-7	Diborane		350	350
96-12-8	Dibromo -3-chloropropane, 1,2-		260	261
106-93-4	Dibromoethane, 1,2-	Dibromoethane, 1,2-	260	261
84-74-2	Dibutyl 1,2-benzenedicarboxylate	Dibutyl 1,2-benzenedicarboxylate	220	226
84-74-2	Dibutyl phthalate	Dibutyl 1,2-benzenedicarboxylate	220	226
109-43-3	Dibutyl sebacate		220	224
95-50-1	Dichlorbenzen, 1,2-		260	263
541-73-1	Dichlorbenzen, 1,3-		260	263
106-46-7	Dichlorbenzen, 1,4-		260	263
107-06-2	Dichlorethane, 1.2.-	Ethylene dichloride	260	261
534-07-6	Dichloro -2-propanone, 1,3-	Dichloro -2-propanone, 1,3-	390	391
534-07-6	Dichloro -2-propanone, 1,3-	Dichloro -2-propanone, 1,3-	260	261
101-14-4	Dichloro -4,4'-methylenedianiline, 2,2'-	Dichloro -4,4'-methylenedianiline, 2,2'-	140	149
30894-74-7	Dichloro -6-isopropyl-S-triazine, 2,4-		270	274
534-07-6	Dichloro acetone, 1,3-	Dichloro -2-propanone, 1,3-	260	261

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534-07-6	Dichloro acetone, 1,3-	Dichloro -2-propanone, 1,3-	390	391
79-36-7	Dichloro acetyl chloride		110	111
95-76-1	Dichloro aniline, 3,4-	Amino 3,4-dichlorobenzene, 1-	140	145

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
95-76-1	Dichloro aniline, 3,4-	Amino 3,4-dichlorobenzene, 1-	260	263
111-44-4	Dichloro ethyl ether		260	261
111-44-4	Dichloro ethyl ether		240	241
75-35-4	Dichloro ethylene, 1,1-	Dichloro ethylene, 1,1-	260	264
75-09-2	Dichloro methane	Methylene chloride	260	261
542-75-6	Dichloro propene, 1,3-		260	261
78-88-6	Dichloro propene, 2,3-		260	261
4109-96-0	Dichloro silane		480	480
628-76-2	Dichloropentane		260	261
111-69-3	Dicyanobutane, 1,4-	Adipic acid dinitrile::Adipic acid nitrile::Adipyl dinitrile::Dicyanobutane, 1,4-	430	431
mix	Diesel automotive test fuel		290	291
68334-30-5	Diesel fuel		290	291
mix	Diesel Fuel Grade D-2		290	290
111-42-2	Diethanolamine		140	142
109-89-7	Diethyl amine	Ethyl ethanamine, N-	140	142
91-66-7	Diethyl aniline crude		140	146
91-66-7	Diethyl aniline, N,N-		140	146
25340-17-4	Diethyl benzene		290	292
121-44-8	Diethyl ethanamine, N,N-	Diethyl ethanamine, N,N-	140	143
60-29-7	Diethyl ether	Diethyl ether	240	241
117-81-7	Diethyl hexyl phthalate	DEHP	220	226
91-67-8	Diethyl m-toluidine, N,N-		140	145
64-67-5	Diethyl sulfate	Sulfuric acid diethyl ester	500	507
111-46-6	Diethylene Glycol		310	314
112-34-5	Diethylene glycol monobutyl ether	Diethylene glycol monobutyl ether	310	311
112-34-5	Diethylene glycol monobutyl ether	Diethylene glycol monobutyl ether	240	245
111-77-3	Diethylene Glycol Monomethyl Ether		240	245
6881-94-3	Diethylene Glycol Monopropyl Ether		240	245
110-91-8	Diethylene imide oxide	Diethylene imide oxide	270	278
110-91-8	Diethylene imide oxide	Diethylene imide oxide	270	274
111-40-0	Diethylene triamine		140	148
755-95-3	Diiodo-1,1,2,2-tetrafluorobutane, 1,4-		260	261
2217-15-4	Diisopropyl L-tartrate	L-Tartaric acid diisopropyl ester	220	224
7087-68-5	Diisopropylethylamine (DIPEA)		140	141
5394-63-8	Diketene Acetone		270	278
5394-63-8	Diketene Acetone		390	391
127-19-5	Dimethyl acetamide N,N-		130	132
124-40-3	Dimethyl amine		140	142
121-69-7	Dimethyl aniline, N,N-	Dimethyl phenylamine, N,N-	140	146
616-38-6	Dimethyl Carbonate (DMC)	Carbonic acid dimethyl ester	230	233
75-78-5	Dimethyl dichlorosilane		480	480
115-10-6	Dimethyl ether		240	241
68-12-2	Dimethyl formamide, N,N-		130	132
624-49-7	Dimethyl fumarate		220	224
57-14-7	Dimethyl hydrazine, N,N-		280	280
67-64-1	Dimethyl ketal	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
67-64-1	Dimethyl ketone	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
624-48-6	Dimethyl maleate		220	224
108-59-8	Dimethyl malonate	Dimethyl propandioate	220	220
108-59-8	Dimethyl malonate	Dimethyl propandioate	220	224
593-74-8	Dimethyl mercury in decane		470	470
756-79-6	Dimethyl Methyl Phosphonate		460	462
62-75-9	Dimethyl nitrosamine	Methyl N-nitrosomethanamine, N-	450	450
121-69-7	Dimethyl phenylamine, N,N-	Dimethyl phenylamine, N,N-	140	146
868-85-9	Dimethyl phosphite		460	462
108-59-8	Dimethyl propandioate	Dimethyl propandioate	220	220
108-59-8	Dimethyl propandioate	Dimethyl propandioate	220	224
77-78-1	Dimethyl sulfate	Sulfuric acid dimethyl ester	500	507
75-18-3	Dimethyl sulfide		500	502
67-68-5	Dimethyl sulfoxide		500	503
108-83-8	Dimethyl-4-Heptanone, 2,6-	Dimethyl-4-Heptanone, 2,6-	390	391
534-52-1	Dinitro-o-cresol, 4,6-	Dinitro-o-cresol, 4,6-	440	442
534-52-1	Dinitro-o-cresol, 4,6-	Dinitro-o-cresol, 4,6-	310	316
534-52-1	Dinitrocresol	Dinitro-o-cresol, 4,6-	310	316
534-52-1	Dinitrocresol	Dinitro-o-cresol, 4,6-	440	442
123-91-1	Dioxane, 1,4-		270	278
101-68-8	Diphenyl methane diisocyanate, 4,4'-	Methylene diphenyl diisocyanate, 4,4'-	210	212
503-38-8	Diphosgene		220	221
503-38-8	Diphosgene		110	113
503-38-8	Diphosgene		260	260
29911-27-1	Dipropylene Glycol Monopropyl Ether		240	245
1313-82-2	Disodium sulfide		340	340
10025-67-9	Disulphur dichloride	Disulphur dichloride	500	502
1321-74-0	Divinyl Benzene		290	292
mix	Dowtherm Heat Transfer Fluid	Dowtherm Heat Transfer Fluid	590	590
25136-40-9	Doxorubicin HCl		990	991
mix	DuPont Activator 193S		590	590
mix	DuPont Activator 4505S		590	590
mix	DuPont Activator 4507S		590	590
15520-10-2	Dytek® A		140	148
106-89-8	Epichlorohydrin	Chloro 2,3-epoxy propane, 1-	270	275
106-89-8	Epichlorohydrin	Chloro 2,3-epoxy propane, 1-	260	261
75-21-8	Epoxy ethane	Epoxy ethane	270	275
75-56-9	Epoxy propane, 1,2-	Epoxy propane, 1,2-	270	275
107-21-1	Ethane 1,2-diol	Ethane 1,2-diol::Glycol alcohol	310	314
144-62-7	Ethane dioic acid	Ethane dioic acid	100	104
123-73-9	Ethane diol dipropanoate, 1,2-	Butenal, 2-::Ethane diol dipropanoate, 1,2-::Methyl acrolein::Propylene aldehyde	120	121
75-05-8	Ethane nitrile	Cyanomethane::Ethane nitrile::Ethyl nitrile::Methyl cyanide	430	431
75-08-1	Ethane thiol	Ethane thiol::Thioalkohol	500	501
79-00-5	Ethane trichloride	Ethane trichloride	260	261

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
64-17-5	Ethanol	Ethyl alcohol::Spiritus	310	311
141-43-5	Ethanol amine	Amino ethanol, 2-	310	311
141-43-5	Ethanol amine	Amino ethanol, 2-	140	141
75-00-3	Ethanoyl chloride	Ethanoyl chloride	260	261
75-36-5	Ethanoyl chloride	Acetic chloride::Ethanoyl chloride	110	111
594-45-6	Ethansulphonic acid		500	504
110-80-5	Ethoxy ethanol, 2-	Cellosolve acetate::Ethyl Cellosolve®:: Ethylene glycol monoethyl ether	240	245
111-15-9	Ethoxy ethylacetat	Acetic acid 2 ethoxy ethyl ester::Ethyl glycol acetate::Ethylene glycol mono ethyl ether acetate	240	245
112-50-5	Ethoxytriglycol		240	245
141-78-6	Ethyl acetate	Acetic acid ethyl ester	220	222
140-88-5	Ethyl acrylate	Acrylic acid ethyl ester	220	223
64-17-5	Ethyl alcohol	Ethyl alcohol::Spiritus	310	311
75-04-7	Ethyl amine		140	141
100-41-4	Ethyl benzene	Phenyl ethane	290	292
97-95-0	Ethyl Butanol		310	312
110-80-5	Ethyl Cellosolve®	Cellosolve acetate::Ethyl Cellosolve®:: Ethylene glycol monoethyl ether	240	245
75-00-3	Ethyl chloride	Ethanoyl chloride	260	261
109-89-7	Ethyl ethanamine, N-	Ethyl ethanamine, N-	140	142
60-29-7	Ethyl ether	Diethyl ether	240	241
111-15-9	Ethyl glycol acetate	Acetic acid 2 ethoxy ethyl ester::Ethyl glycol acetate::Ethylene glycol mono ethyl ether acetate	240	245
149-57-5	Ethyl hexanoic acid		100	102
75-08-1	Ethyl mercaptan	Ethane thiol::Thioalkohol	500	501
623-53-0	Ethyl methyl carbonate (EMC)	Carbonic acid ethyl methyl ester	230	233
75-05-8	Ethyl nitrile	Cyanomethane::Ethane nitrile::Ethyl nitrile::Methyl cyanide	430	431
56-38-2	Ethyl parathion		460	462
541-41-3	Ethylchloroformate		220	221
541-41-3	Ethylchloroformate		110	113
541-41-3	Ethylchloroformate		260	260
96-49-1	Ethylene Carbonate solution		270	278
79-10-7	Ethylene carboxylic acid	Acroleic acid::Ethylene carboxylic acid:: Propene acid	100	102
107-07-3	Ethylene chlorohydrin	Ethylene chlorohydrin::Glycol chlorohydrin	260	261
107-07-3	Ethylene chlorohydrin	Ethylene chlorohydrin::Glycol chlorohydrin	310	315
107-15-3	Ethylene diamine	Diaminoethane, 1,2-	140	148
106-93-4	Ethylene dibromide	Dibromoethane, 1,2-	260	261
107-06-2	Ethylene dichloride	Ethylene dichloride	260	261
107-21-1	Ethylene glycol	Ethane 1,2-diol::Glycol alcohol	310	314
818-61-1	Ethylene glycol acrylate		220	223
111-15-9	Ethylene glycol mono ethyl ether acetate	Acetic acid 2 ethoxy ethyl ester::Ethyl glycol acetate::Ethylene glycol mono ethyl ether acetate	240	245
111-76-2	Ethylene glycol monobutyl ether	Ethylene glycol monobutyl ether	240	245
110-80-5	Ethylene glycol monoethyl ether	Cellosolve acetate::Ethyl Cellosolve®:: Ethylene glycol monoethyl ether	240	245
112-25-4	Ethylene Glycol Monohexyl Ether		240	245
109-86-4	Ethylene glycol monomethyl ether	Ethylene glycol monomethyl ether	240	245
75-21-8	Ethylene oxide		270	275
127-18-4	Ethylene tetrachloride	Ethylene tetrachloride	260	264
79-01-6	Ethylene trichloride	Ethylene trichloride	260	264
33419-42-0	Etoposide (Toposar®, Teva)		990	991
7758-94-3	Ferric (II) chloride		340	340
7705-08-0	Ferric (III) chloride		340	340
7782-41-4	Fluorine		350	350
462-06-6	Fluorobenzene		260	263
16872-11-0	Fluoroboric acid		370	370
75-46-7	Fluoroform	Fluoroform	260	261
16961-83-4	Fluorosilicic acid		370	370
7789-21-1	Fluorosulfonic acid		370	370
51-21-8	Fluorouracil, 5-		990	991
50-00-0	Formaldehyde	Formalin	120	121
50-00-0	Formalin		120	121
50-00-0	Formalin	Formalin	120	121
64-18-6	Formic acid		100	102
68476-30-2	Fuel-oil no 2	Carburant n° 2	290	291
98-01-1	Furaldehyde, 2-	Furaldehyde, 2-	270	277
110-00-9	Furan		270	277
98-01-1	Furfural	Furaldehyde, 2-	270	277
82410-32-0	Ganciclovir		990	991
mix	Gasoline, leaded		290	291
86290-81-5	Gasoline, unleaded		290	291
308066-70-8	Gasoline, unleaded E10 (87 Octane)		290	291
95058-81-4	Gemcitabine		990	991
111-30-8	Glutaral	Glutaral::Pentanedial, 1,5-	120	121
111-30-8	Glutaraldehyde	Glutaral::Pentanedial, 1,5-	120	121
56-81-5	Glycerine	Glycerine::Propane -1,2,3-triol	310	314
56-81-5	Glycerol	Glycerine::Propane -1,2,3-triol	310	314
107-21-1	Glycol alcohol	Ethane 1,2-diol::Glycol alcohol	310	314
107-07-3	Glycol chlorohydrin	Ethylene chlorohydrin::Glycol chlorohydrin	310	315
107-07-3	Glycol chlorohydrin	Ethylene chlorohydrin::Glycol chlorohydrin	260	261
79-14-1	Glycolic acid	Hydroxy acetic acid	100	103
mix	Green Liquor		590	590
142-82-5	Heptane		290	291
87-68-3	Hexachloro butadiene		260	264
58-89-9	Hexachloro cyclohexane, 1,2,3,4,5,6-	Hexachloro cyclohexane, 1,2,3,4,5,6-	260	261
76-16-4	Hexafluoro ethane	Perfluoroethane	260	261
382-10-5	Hexafluoro isobutylene	Trifluoro 2-(trifluoromethyl)propene, 3,3,3-	260	261
108-93-0	Hexalin	Hexalin	310	312
999-97-3	Hexamethyl disilazane	Hexamethyl disilazane, 1,1,1,3,3,3-	480	480
999-97-3	Hexamethyl disilazane, 1,1,1,3,3,3-	Hexamethyl disilazane, 1,1,1,3,3,3-	480	480
124-09-4	Hexamethylene diamine		140	148
822-06-0	Hexamethylene diisocyanate		210	211

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109-86-4	Ethylene glycol monomethyl ether	Ethylene glycol monomethyl ether	310	311
110-49-6	Ethylene glycol monomethyl ether acetate	Acetic acid 2 methoxy ethyl ester:: Ethylene glycol monomethyl ether acetate	240	245
151-56-4	Ethylene imine	Aziridine	270	274

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CHEMICAL INDEX - Alphabetical Listing - Chemical Names and Synonyms

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
110-54-3	Hexane, n-		290	291
108-94-1	Hexanone	Hexanone::Pimelic ketone	390	391
592-41-6	Hexene		290	294
108-10-1	Hexone	Isobutyl methyl ketone::Methyl pentan-2-one, 4-	390	391
112-59-4	Hexyl Carbitol Solvent		240	245
6092-54-2	Hexyl chloro formate, 2-		220	221
302-01-2	Hydrazine		280	280
10217-52-4	Hydrazine hydrate		280	280
10034-85-2	Hydriodic acid		370	370
10035-10-6	Hydrobromic acid		370	370
7647-01-0	Hydrochloric acid		370	370
7664-39-3	Hydrofluoric acid		350	350
7664-39-3	Hydrofluoric acid		370	370
10035-10-6	Hydrogen bromide	Bromine hydrogen (gaseous)	350	350
10035-10-6	Hydrogen bromide	Bromine hydrogen (gaseous)	370	370
7647-01-0	Hydrogen chloride		370	370
7647-01-0	Hydrogen chloride		350	350
74-90-8	Hydrogen cyanide		340	345
74-90-8	Hydrogen cyanide		350	350
74-90-8	Hydrogen cyanide		370	370
7664-39-3	Hydrogen fluoride		350	350
7664-39-3	Hydrogen fluoride		370	370
7722-84-1	Hydrogen peroxide		300	301
7783-07-5	Hydrogen selenide		350	350
7783-06-4	Hydrogen sulfide		500	502
7783-06-4	Hydrogen sulfide		350	350
77-92-9	Hydroxy 1,2,3-propanetricarboxylic acid, 2-	Hydroxy 1,2,3-propanetricarboxylic acid, 2-	100	104
60-24-2	Hydroxy 1-ethanethiol, 2-	Hydroxy 1-ethanethiol, 2-	310	311
60-24-2	Hydroxy 1-ethanethiol, 2-	Hydroxy 1-ethanethiol, 2-	500	501
75-86-5	Hydroxy 2-methylpropionitrile, 2-	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	310	313
75-86-5	Hydroxy 2-methylpropionitrile, 2-	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	430	431
88-75-5	Hydroxy 2-nitrobenzene, 1-	Hydroxy 2-nitrobenzene, 1-	310	316
88-75-5	Hydroxy 2-nitrobenzene, 1-	Hydroxy 2-nitrobenzene, 1-	440	442
79-14-1	Hydroxy acetic acid	Hydroxy acetic acid	100	103
106-48-9	Hydroxy chlorobenzene	Hydroxy chlorobenzene	310	316
106-48-9	Hydroxy chlorobenzene	Hydroxy chlorobenzene	260	263
75-86-5	Hydroxy isobutyronitrile	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	430	431
75-86-5	Hydroxy isobutyronitrile	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	310	313
107-18-6	Hydroxy propene	Hydroxy propene::Propen 1-ol, 2-::Vinyl carbinol	310	311
100-51-6	Hydroxy toluene	Hydroxy toluene	310	312
95-48-7	Hydroxy toluene, o-	Hydroxy toluene, o-	310	316
6303-21-5	Hypophosphorus acid	Phosphinic acid	370	370
3778-73-2	Ifosfamide		990	991
7553-56-2	Iodine		330	330

CAS Number	Chemical Name	Synonym	Class	Sub-Class
100286-90-6	Irinotecan		990	991
123-92-2	Iso Amyl Acetate		220	222
123-51-3	Isoamyl alcohol	Methyl butan-1-ol, 3-	310	312
78-83-1	Isobutanol		310	312
78-83-1	Isobutanol		310	311
108-10-1	Isobutyl methyl ketone	Isobutyl methyl ketone::Methyl pentan-2-one, 4-	390	391
99-63-8	Isophthaloyldichloride		110	112
67-63-0	Isopropanol	Isopropanol::Isopropyl alcohol	310	312
108-21-4	Isopropyl Acetate	Isopropyl ethanoate	220	222
67-63-0	Isopropyl alcohol	Isopropanol::Isopropyl alcohol	310	312
75-31-0	Isopropyl amine	Amino propane, 2-	140	141
98-82-8	Isopropyl benzene	Isopropyl benzene::Phenyl propane, 2-	290	292
29921-57-1	Isopropyl bromoacetate		220	222
29921-57-1	Isopropyl bromoacetate		260	260
29921-57-1	Isopropyl bromoacetate		110	110
1675-54-3	Isopropylidenediphenol diglycidyl ether, 4,4'-	Bis (4-(2,3-epoxypropoxy)phenyl) propane::Isopropylidenediphenol diglycidyl ether, 4,4'-	270	275
50815-00-4	JP-4 Jet Fuel		290	291
94114-58-6	JP-8 Jet Fuel		290	291
8008-20-6	Kerosene		290	291
67-64-1	Ketone propane	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
50-21-5	Lactic Acid		100	103
541-25-3	Lewisite (L), FINABEL 0.7.C		470	470
541-25-3	Lewisite (L), MIL-STD-282		470	470
5989-27-5	Limonene d-	Methyl 4-isopropenyl-1-cyclohexene, 1-	290	296
58-89-9	Lindane	Hexachloro cyclohexane, 1,2,3,4,5,6-	260	261
7447-41-8	Lithium chloride		340	340
21324-40-3	Lithium Hexafluorophosphate (sat.)		340	340
1310-65-2	Lithium hydroxide		380	380
8052-41-3	Low boiling point naphtha - unspecified	Low boiling point naphtha - unspecified	290	291
mix	m-Cresol 55%, p-Cresol 30%, Phenol 15%		310	316
121-75-5	Malathion		460	462
108-31-6	Maleic anhydride		160	161
78-93-3	MEK	Butanone::MEK	390	391
68-11-1	Mercapto acetic acid	Mercapto acetic acid	500	501
68-11-1	Mercapto acetic acid	Mercapto acetic acid	100	103
60-24-2	Mercapto ethanol	Hydroxy 1-ethanethiol, 2-	500	501
60-24-2	Mercapto ethanol	Hydroxy 1-ethanethiol, 2-	310	311
10112-91-1	Mercuric I chloride	Calomel	340	340
7487-94-7	Mercuric II chloride		340	340
7439-97-6	Mercury		330	330
79-41-4	Methacrylic acid	Methyl propenoic acid, 2-	100	102
513-42-8	Methallyl Alcohol		310	311
124-63-0	Methanesulfonyl chloride		500	505
75-75-2	Methanesulphonic acid		500	504
74-93-1	Methanethiol	Methanethiol	350	350

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74-88-4	Iodomethane	Iodomethane	260	261

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
74-93-1	Methanethiol	Methanethiol	380	380
74-93-1	Methanethiol	Methanethiol	500	501
67-56-1	Methanol		310	311
16752-77-5	Methomyl		230	233
59-05-2	Methotrexate		990	991
1634-04-4	Methoxy 2-methylpropane, 2-	Methoxy 2-methylpropane, 2-	240	241
107-30-2	Methoxy chloromethane	Methoxy chloromethane	240	241
109-86-4	Methoxy ethanol, 2	Ethylene glycol monomethyl ether	310	311
109-86-4	Methoxy ethanol, 2	Ethylene glycol monomethyl ether	240	245
110-49-6	Methoxy ethylacetate, 2-	Acetic acid 2 methoxy ethyl ester:: Ethylene glycol monomethyl ether acetate	240	245
112-35-6	Methoxytriglycol		240	245
1658-42-0	Methyl -2-pyridyl acetate		220	222
4553-62-2	Methyl 1,5-pentantedinitrile, 2-		430	431
80-62-6	Methyl 2-methyl-2-propenoate	Methyl 2-methyl-2-propenoate	220	223
872-50-4	Methyl 2-pyrrolidone, N-		130	132
5989-27-5	Methyl 4-isopropenyl-1-cyclohexene, 1-	Methyl 4-isopropenyl-1-cyclohexene, 1-	290	296
79-20-9	Methyl Acetate		220	222
67-64-1	Methyl acetyl	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone:: Propan -2-one::Pyroacetic ether	390	391
123-73-9	Methyl acrolein	Butenal, 2-::Ethane diol dipropanoate, 1,2-::Methyl acrolein::Propylene aldehyde	120	121
96-33-3	Methyl acrylate		220	223
74-89-5	Methyl amine		140	141
95-53-4	Methyl aniline, o-	Methyl aniline, o-	140	145
108-88-3	Methyl benzol	Methyl benzol	290	292
103-67-3	Methyl benzylamine, N-	Methyl benzylamine, N-	140	146
103-67-3	Methyl benzylamine, N-	Methyl benzylamine, N-	290	292
74-83-9	Methyl bromide	Bromo methane	260	261
123-51-3	Methyl butan-1-ol, 3-	Methyl butan-1-ol, 3-	310	312
74-87-3	Methyl chloride		260	261
79-22-1	Methyl chloro formate		110	113
71-55-6	Methyl chloroform	Methyl chloroform::Methyl trichloromethane	260	261
75-05-8	Methyl cyanide	Cyanomethane::Ethane nitrile::Ethyl nitrile::Methyl cyanide	430	431
78-93-3	Methyl ethyl ketone	Butanone::MEK	390	391
1338-23-4	Methyl Ethyl Ketone Peroxide	Methyl Ethyl Ketone Peroxide	300	300
1338-23-4	Methyl Ethyl Ketone Peroxide	Methyl Ethyl Ketone Peroxide	300	302
96-29-7	Methyl ethyl ketoxime	Butanone oxime, 2-	150	150
593-53-3	Methyl fluoride		260	261
123-39-7	Methyl formamide, N-		130	132
107-31-3	Methyl formate		220	221
60-34-4	Methyl hydrazine		280	280
616-47-7	Methyl imidazole, 1-		270	274
74-88-4	Methyl iodide	Iodomethane	260	261
105-44-2	Methyl Isobutyl Ketoxime		150	150
624-83-9	Methyl isocyanate		210	211
563-80-4	Methyl Isopropyl Ketone		390	391
67-64-1	Methyl ketone	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone:: Propan -2-one::Pyroacetic ether	390	391

CAS Number	Chemical Name	Synonym	Class	Sub-Class
74-93-1	Methyl mercaptan	Methanethiol	350	350
74-93-1	Methyl mercaptan	Methanethiol	380	380
74-93-1	Methyl mercaptan	Methanethiol	500	501
80-62-6	Methyl methacrylate	Methyl 2-methyl-2-propenoate	220	223
62-75-9	Methyl N-nitrosomethanamine, N-	Methyl N-nitrosomethanamine, N-	450	450
108-10-1	Methyl pentan-2-one, 4-	Isobutyl methyl ketone::Methyl pentan-2-one, 4-	390	391
1319-77-3	Methyl phenols	Cresylic acid::Methyl phenols	310	316
75-65-0	Methyl propan-2-ol, 2-	Methyl propan-2-ol, 2-	310	313
79-41-4	Methyl propenoic acid, 2-	Methyl propenoic acid, 2-	100	102
107-87-9	Methyl Propyl Ketone		390	391
109-06-8	Methyl pyridine, 2-	Methyl pyridine, 2-	270	271
108-99-6	Methyl pyridine, 3-	Methyl pyridine, 3-	270	271
119-36-8	Methyl salicylate		220	226
1634-04-4	Methyl tert-butyl ether	Methoxy 2-methylpropane, 2-	240	241
71-55-6	Methyl trichloromethane	Methyl chloroform::Methyl trichloromethane	260	261
75-79-6	Methyl trichlorosilane		480	480
78-94-4	Methyl vinyl ketone	But-3-en-2-one	390	391
108-87-2	Methylcyclohexane	Cyclohexylmethane	290	291
1761-71-3	Methylen Isocyclohexylamine, 4,4-		140	148
101-14-4	Methylene bis(2-Chloroaniline), 4,4-	Dichloro -4,4'-methylenedianiline, 2,2'-	140	149
74-95-3	Methylene bromide		260	261
75-09-2	Methylene chloride	Methylene chloride	260	261
101-77-9	Methylene dianiline	Diaminodiphenylmethane, 4,4'-	140	145
101-77-9	Methylene dianiline	Diaminodiphenylmethane, 4,4'-	140	149
101-68-8	Methylene diphenyl diisocyanate, 4,4'-	Methylene diphenyl diisocyanate, 4,4'-	210	212
8012-95-1	Mineral oil		290	291
64475-85-0	Mineral spirit		290	291
50-07-7	Mitomycin		990	991
110-91-8	Morpholine	Diethylene imide oxide	270	274
110-91-8	Morpholine	Diethylene imide oxide	270	278
75-55-8	Méthyl aziridine, 2-	Methyl aziridine, 2-	270	274
109-02-4	N-Methylmorpholine (NMM)		270	278
109-02-4	N-Methylmorpholine (NMM)		270	274
8032-32-4	Naphtha		290	292
91-20-3	Naphthalene		290	293
13463-39-3	Nickel carbonyl	Tetracarbonylnickel	470	470
54-11-5	Nicotine		270	271
7697-37-2	Nitric acid		370	370
52583-42-3	Nitric acid, red fuming		370	370
10102-43-9	Nitric oxide	Stickoxid	350	350
97697-37-4	Nitric/Hydrofluoric Pickling Solution		370	370
98-95-3	Nitro benzene		440	441
76-06-2	Nitro chlormethan	Chloro picrin::Nitro chlormethan	260	261
100-00-5	Nitro chlorobenzene, p-		440	442
100-00-5	Nitro chlorobenzene, p-		260	263

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
75-52-5	Nitro methane		440	441
88-75-5	Nitro phenol, o-	Hydroxy 2-nitrobenzene, 1-	310	316
88-75-5	Nitro phenol, o-	Hydroxy 2-nitrobenzene, 1-	440	442
79-46-9	Nitro propane, 2-		440	441
88-72-2	Nitro toluene, 2-		440	442
99-99-0	Nitro toluene, p-		440	442
10102-44-0	Nitrogen dioxide		350	350
10544-72-6	Nitrogen tetroxide		350	350
7783-54-2	Nitrogen trifluoride		350	350
8007-56-5	Nitrohydrochloric Acid	Aqua regia	370	370
10024-97-2	Nitrous oxide		350	350
811-97-2	Norflurane	Norflurane	260	261
111-65-9	Octane, n-		290	291
111-87-5	Octanol, n-		310	311
7452-59-7	Octyl chlor formiate		110	113
7452-59-7	Octyl chlor formiate		220	221
112-80-1	Oleic Acid		100	102
8014-95-7	Oleum	Sulfuric acid fuming	370	370
144-62-7	Oxalic acid	Ethane dioic acid	100	104
63121-00-6	Oxaliplatin		990	991
98-51-1	P-Tert Butyl Toluene		290	292
33069-62-4	Paclitaxel (Hospira)		990	991
104-49-4	Paraphenylene diisocyanate (PPDI) crude		210	212
mix	PCB		260	263
11097-69-1	PCB 1254		260	263
mix	PCB in transformer oil		260	263
7647-18-9	Pentachloroantimony	Pentachloroantimony	360	360
87-86-5	Pentachlorophenol		310	316
109-66-0	Pentane		290	291
111-30-8	Pentanedial, 1,5-	Glutaral::Pentanedial, 1,5-	120	121
109-52-4	Pentanoic acid		290	291
71-41-0	Pentanol, 1-	Amyl alcohol	310	311
75-85-4	Pentanol, tert-	2-Methyl-2-Butanol::Amyl alcohol, tert-	310	313
13284-42-9	Pentene nitrile, 2-		430	431
4635-87-4	Pentene nitrile, 3-		430	431
25899-50-7	Pentene nitrile, cis-2-		430	431
628-63-7	Pentyl acetate	Acetic acid pentyl ester::Amyl ester acetic acid::Pentyl acetate	220	222
79-21-0	Peracetic Acid		300	300
79-21-0	Peracetic Acid		100	102
79-21-0	Peracetic Acid		300	302
7601-90-3	Perchloric acid		370	370
2062-98-8	Perfluoro 2-propoxy propionyl fluoride		110	111
2062-98-8	Perfluoro 2-propoxy propionyl fluoride		260	261
2062-98-8	Perfluoro 2-propoxy propionyl fluoride		240	241
76-16-4	Perfluoroethane	Perfluoroethane	260	261

CAS Number	Chemical Name	Synonym	Class	Sub-Class
60-12-8	Phenethyl alcohol, 2-		310	318
100-42-5	Phenethylene	Phenethylene::Vinyl benzol	290	292
108-95-2	Phenol		310	316
140-29-4	Phenyl acetonitrile	Phenyl acetonitrile	430	432
62-53-3	Phenyl amine	Amino benzene::Benzenamine::Phenyl amine	140	145
1885-14-9	Phenyl chlor formiate		220	221
108-90-7	Phenyl chloride	Phenyl chloride	260	263
100-47-0	Phenyl cyanide	Cyanobenzene::Phenyl cyanide	430	432
100-41-4	Phenyl ethane	Phenyl ethane	290	292
98-85-1	Phenyl ethanol, 1-		310	318
122-60-1	Phenyl glycidyl ether		270	275
108-98-5	Phenyl mercaptan	Benzene thiol::Thiophenol	500	501
98-82-8	Phenyl propane, 2-	Isopropyl benzene::Phenyl propane, 2-	290	292
98-13-5	Phenyl trichlorosilane	Phenyl trichlorosilane	480	480
75-44-5	Phosgene		350	350
7803-51-2	Phosphine		350	350
6303-21-5	Phosphinic acid	Phosphinic acid	370	370
7664-38-2	Phosphoric acid		370	370
512-56-1	Phosphoric acid trimethyl ester	Phosphoric acid trimethyl ester	460	462
10025-87-3	Phosphorus oxychloride		360	360
7719-12-2	Phosphorus trichloride		360	360
109-06-8	Picoline, 2-	Methyl pyridine, 2-	270	271
108-99-6	Picoline, 3-	Methyl pyridine, 3-	270	271
108-94-1	Pimelic ketone	Hexanone::Pimelic ketone	390	391
24991-55-7	Polyethylene glycol dimethyl ether		240	245
9016-87-9	Polymethylene polyphenyle isocyanate (p-MDI)		210	212
127-08-2	Potassium acetate		340	340
584-08-7	Potassium carbonate		340	340
7789-00-6	Potassium chromate		340	340
151-50-8	Potassium cyanide		340	345
1310-58-3	Potassium hydroxide		380	380
7722-64-7	Potassium permanganate		340	340
107-02-8	Prop-2-en-1-al	Prop-2-en-1-al	120	121
107-19-7	Prop-2-yn-1-ol	Prop-2-yn-1-ol	310	311
71-23-8	Propan -1-ol	Propanol, 1-::Propanol, n-::Propyl alcohol	310	311
67-63-0	Propan -2-ol	Isopropanol::Isopropyl alcohol	310	312
67-64-1	Propan -2-one	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
74-98-6	Propane		290	291
56-81-5	Propane -1,2,3-triol	Glycerine::Propane -1,2,3-triol	310	314
79-09-4	Propanoic acid		100	102
71-23-8	Propanol, 1-	Propanol, 1-::Propanol, n-::Propyl alcohol	310	311
71-23-8	Propanol, n-	Propanol, 1-::Propanol, n-::Propyl alcohol	310	311
107-19-7	Propargyl alcohol	Prop-2-yn-1-ol	310	311
107-18-6	Propen 1-ol, 2-	Hydroxy propene::Propen 1-ol, 2-::Vinyl carbinol	310	311
79-06-1	Propenamide	Acrylicamide::Propenamide	130	135

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APPENDIX
CHEMICAL INDEX - Alphabetical Listing - Chemical Names and Synonyms

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
79-10-7	Propene acid	Acroleic acid::Ethylene carboxylic acid::Propene acid	100	102
107-13-1	Propenenitrile, 2-	Cyanoethylene::Propenenitrile, 2-::Propenoic acid nitrile::Vinyl cyanide	430	431
141-32-2	Propenoic acid butyl ester, 2-	Acrylic acid n-butyl ester::Propenoic acid butyl ester, 2-	220	223
107-13-1	Propenoic acid nitrile	Cyanoethylene::Propenenitrile, 2-::Propenoic acid nitrile::Vinyl cyanide	430	431
1569-01-3	Propoxypropanol		240	245
109-61-5	Propychloroformate		110	113
109-61-5	Propychloroformate		260	260
109-61-5	Propychloroformate		220	221
109-60-4	Propyl Acetate		220	222
71-23-8	Propyl alcohol	Propanol, 1-::Propanol, n-::Propyl alcohol	310	311
107-10-8	Propyl amine, n-		140	141
106-94-5	Propyl bromide, n-		260	261
2807-30-9	Propyl Cellosolve, n-		240	245
123-73-9	Propylene aldehyde	Butenal, 2-::Ethane diol dipropanoate, 1,2-::Methyl acrolein::Propylene aldehyde	120	121
78-87-5	Propylene dichloride		260	261
57-55-6	Propylene Glycol		310	314
75-55-8	Propylene imine	Methyl aziridine, 2-	270	274
75-56-9	Propylene oxide, 1,2-	Epoxy propane, 1,2-	270	275
94239-04-0	Pyridene, 2-fluoro-6-(trifluoromethyl)		270	271
110-86-1	Pyridine		270	271
67-64-1	Pyroacetic ether	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
123-75-1	Pyrrolidine	Azolidine	270	274
1717-00-6	Refrigerant 141B		260	261
31218-83-4	Safrotin		460	462
107-44-8	Sarin (GB), MIL-STD-282		460	462
7803-62-5	Silane		480	480
10026-04-7	Silicon tetrachloride		360	360
10026-04-7	Silicon tetrachloride		480	480
mix	Skydrol 4D		590	590
mix	Skydrol 5	Skydrol 5	590	590
126-73-8	Skydrol 500 B-4		460	462
mix	Skydrol PE-5	Skydrol PE-5	590	590
127-09-3	Sodium acetate		550	550
7631-90-5	Sodium bisulphite		500	507
7647-14-5	Sodium chloride		990	991
143-33-9	Sodium cyanide		340	345
7681-49-4	Sodium fluoride		340	340
1310-73-2	Sodium hydroxide	Caustic soda	380	380
7681-52-9	Sodium hypochlorite		340	340
7681-57-4	Sodium metabisulphite		340	340
124-41-4	Sodium methylate		550	550
6834-92-0	Sodium silicate		340	340
96-64-0	Soman (GD), FINABEL 0.7.C		460	462
96-64-0	Soman (GD), MIL-STD-282		460	462
mix	Spectracide® (50% Malathion, 44% Aromatic Solvent)	Spectracide® (50% Malathion, 44% Aromatic Solvent)	590	590

CAS Number	Chemical Name	Synonym	Class	Sub-Class
64-17-5	Spiritus	Ethyl alcohol::Spiritus	310	311
10102-43-9	Stickoxid	Stickoxid	350	350
8052-41-3	Stoddard solvent	Low boiling point naphtha - unspecified	290	291
100-42-5	Styrene	Phenethylene::Vinyl benzol	290	292
5329-14-6	Sulfamic acid	Amido sulfonic acid::Sulfamidic acid	370	370
5329-14-6	Sulfamic acid	Amido sulfonic acid::Sulfamidic acid	500	509
5329-14-6	Sulfamidic acid	Amido sulfonic acid::Sulfamidic acid	370	370
5329-14-6	Sulfamidic acid	Amido sulfonic acid::Sulfamidic acid	500	509
7446-09-5	Sulfur dioxide		360	365
7446-09-5	Sulfur dioxide		350	350
2551-62-4	Sulfur hexafluoride		350	350
2551-62-4	Sulfur hexafluoride		500	509
10025-67-9	Sulfur monochloride	Disulphur dichloride	500	502
505-60-2	Sulfur Mustard (HD), FINABEL 0.7.C		500	502
505-60-2	Sulfur Mustard (HD), MIL-STD-282		500	502
7446-11-9	Sulfur trioxide		360	365
7664-93-9	Sulfuric acid		370	370
64-67-5	Sulfuric acid diethyl ester	Sulfuric acid diethyl ester	500	507
77-78-1	Sulfuric acid dimethyl ester	Sulfuric acid dimethyl ester	500	507
8014-95-7	Sulfuric acid fuming	Sulfuric acid fuming	370	370
10545-99-0	Sulphur dichloride	Sulphur dichloride	500	502
mix	t-Sodium-amylate / t-amyl alcohol		590	590
77-81-6	Tabun (GA), FINABEL 0.7.C		460	462
77-81-6	Tabun (GA), MIL-STD-282		460	462
75-91-2	Tert-Butyl Hydroperoxide	Tert-Butyl Hydroperoxide	300	300
75-91-2	Tert-Butyl Hydroperoxide	Tert-Butyl Hydroperoxide	300	302
13463-39-3	Tetracarbonylnickel	Tetracarbonylnickel	470	470
79-95-8	Tetrachloro bisphenol-A, 2,2',6,6'-		260	263
79-95-8	Tetrachloro bisphenol-A, 2,2',6,6'-		310	316
79-34-5	Tetrachloro ethane, 1,1,2,2,-		260	261
127-18-4	Tetrachloro ethylene, 1,1,2,2-	Ethylene tetrachloride	260	264
56-23-5	Tetrachloro methane	Tetrachloro methane	260	261
78-10-4	Tetraethoxysilane		480	480
77-98-5	Tetraethyl ammonium hydroxide		550	550
77-98-5	Tetraethyl ammonium hydroxide		150	150
78-00-2	Tetraethyl lead		470	470
112-57-2	Tetraethylene pentamine		140	141
112-57-2	Tetraethylene pentamine		140	148
811-97-2	Tetrafluoroethane, 1,1,1,2-	Norflurane	260	261
75-73-0	Tetrafluoromethane	Carbon tetrafluoride	260	261
109-99-9	Tetrahydrofuran		270	277
75-59-2	Tetramethyl ammonium hydroxide		550	550
594-27-4	Tetramethyl tin		470	470
110-18-9	Tetramethylethylene diamine (TMEDA)		140	148
288-47-1	Thiazol, 1,3-		270	274

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APPENDIX
CHEMICAL INDEX - Alphabetical Listing - Chemical Names and Synonyms

CAS Number	Chemical Name	Synonym	Class	Sub-Class
75-08-1	Thioalkohol	Ethane thiol::Thioalkohol	500	501
68-11-1	Thioglycolic acid	Mercapto acetic acid	500	501
68-11-1	Thioglycolic acid	Mercapto acetic acid	100	103
7719-09-7	Thionyl chloride		360	360
108-98-5	Thiophenol	Benzene thiol::Thiophenol	500	501
52-24-4	Thiotepa		990	991
1118-46-3	Tin chloride, mono-n-butyl	Butyl stannium trichloride	470	470
1461-22-9	Tin chloride, tri-n-butyl		470	470
7550-45-0	Titan(IV) chloride	Titan(IV) chloride	360	360
546-68-9	Titanium (IV) isopropoxide	Titanium tetraisopropoxide	470	470
7550-45-0	Titanium tetrachloride	Titan(IV) chloride	360	360
108-88-3	Toluene	Methyl benzol	290	292
26471-62-5	Toluene diisocyanate, 1,3-		210	212
584-84-9	Toluene diisocyanate, 2,4-		210	212
108-44-1	Toluidine, m-		140	145
95-53-4	Toluidine, o-	Methyl aniline, o-	140	145
102-82-9	Tributyl amine		140	143
102-82-9	Tributyl amine		140	148
126-73-8	Tributyl phosphate		460	462
75-94-5	Trichlor vinylsilane		480	480
76-13-1	Trichloro 1,2,2-trifluoroethane, 1,1,2-		260	261
108-77-0	Trichloro 1,3,5-triazine, 2,4,6-	Trichloro 1,3,5-triazine, 2,4,6-	260	263
108-77-0	Trichloro 1,3,5-triazine, 2,4,6-	Trichloro 1,3,5-triazine, 2,4,6-	270	274
76-03-9	Trichloro acetic acid		100	103
921-03-9	Trichloro acetone, 1,1,3-		390	391
921-03-9	Trichloro acetone, 1,1,3-		260	261
120-82-1	Trichloro benzene, 1,2,4-		260	263
71-55-6	Trichloro ethane, 1,1,1-	Methyl chloroform::Methyl trichloromethane	260	261
79-00-5	Trichloro ethane, 1,1,2-	Ethane trichloride	260	261
115-20-8	Trichloro ethanol, 2,2,2-		310	315
79-01-6	Trichloro ethylene	Ethylene trichloride	260	264
67-66-3	Trichloro methane	Trichloro methane	260	261
98-13-5	Trichloro phenylsilane	Phenyl trichlorosilane	480	480
10025-78-2	Trichloro silane		480	480
102-71-6	Triethanolamine		140	143
97-93-8	Triethyl aluminum		470	470
121-44-8	Triethyl amine	Diethyl ethanamine, N,N-	140	143
78-40-0	Triethyl Phosphate		460	462
112-24-3	Triethylentetramine		140	148
112-24-3	Triethylentetramine		140	141
98-08-8	Triflouromethylbenzene		260	263
382-10-5	Trifluoro 2-(trifluoromethyl)propene, 3,3,3-	Trifluoro 2-(trifluoromethyl)propene, 3,3,3-	260	261
76-05-1	Trifluoro acetic acid		260	261
76-05-1	Trifluoro acetic acid		100	103
75-89-8	Trifluoro ethanol, 2,2,2-		310	315

CAS Number	Chemical Name	Synonym	Class	Sub-Class
75-46-7	Trifluoro methane	Fluoroform	260	261
1493-13-6	Trifluoro methansulfonic acid		500	504
75-50-3	Trimethyl amine		140	143
75-64-9	Trimethyl aminomethane	Amino 2-methylpropane, 2-::Trimethyl aminomethane	140	143
512-56-1	Trimethyl phosphate	Phosphoric acid trimethyl ester	460	462
121-45-9	Trimethyl phosphite		460	462
102-69-2	Tripropyl amine		140	143
7783-82-6	Tungsten hexafluoride		350	350
8006-64-2	Turpentine		290	296
8006-64-2	Turpentine		290	294
83016-70-0	Urethane Catalyst Alkanol		240	245
7632-51-1	Vanadium tetrachloride		360	360
2068-78-2	Vincristine sulfate		990	991
71486-22-1	Vinorelbine		990	991
108-05-4	Vinyl acetate	Acetic acid ethenyl ester	220	222
100-42-5	Vinyl benzol	Phenethylene::Vinyl benzol	290	292
107-18-6	Vinyl carbinol	Hydroxy propene::Propen 1-ol, 2-::Vinyl carbinol	310	311
75-01-4	Vinyl chloride	Chloro ethene	260	264
107-13-1	Vinyl cyanide	Cyanoethylene::Propenenitrile, 2-:: Propenoic acid nitrile::Vinyl cyanide	430	431
106-99-0	Vinyl ethylene	Vinyl ethylene	290	296
3536-96-7	Vinyl magnesium chloride		470	470
100-43-6	Vinyl pyridine, 4-		270	271
88-12-0	Vinyl Pyrrolidinone		270	274
75-35-4	Vinylidene chloride	Dichloro ethylene, 1,1-	260	264
8030-30-6	VM & P Naphtha		290	291
50782-69-9	VX Nerve Agent, FINABEL 0.7.C		460	462
50782-69-9	VX Nerve Agent, MIL-STD-282		460	462
mix	White Liquor		590	590
mix	White spirit		290	291
1330-20-7	Xylene, mixed isomers		290	292
95-47-6	Xylene, o-		290	292
95-68-1	Xylidine, 2,4-		140	145

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APPENDIX
CHEMICAL INDEX - Chemical Abstract System (CAS) Number - Chemical Names and Synonyms

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
50-00-0	Formaldehyde	Formalin	120	121
50-00-0	Formalin	Formalin	120	121
50-00-0	Formalin		120	121
50-07-7	Mitomycin		990	991
50-18-0	Cyclo phosphamide		990	991
50-21-5	Lactic Acid		100	103
51-21-8	Fluorouracil, 5-		990	991
52-24-4	Thiotepa		990	991
54-11-5	Nicotine		270	271
56-23-5	Carbon tetrachloride	Tetrachloro methane	260	261
56-23-5	Tetrachloro methane	Tetrachloro methane	260	261
56-38-2	Ethyl parathion		460	462
56-81-5	Glycerine	Glycerine::Propane -1,2,3-triol	310	314
56-81-5	Glycerol	Glycerine::Propane -1,2,3-triol	310	314
56-81-5	Propane -1,2,3-triol	Glycerine::Propane -1,2,3-triol	310	314
57-14-7	Dimethyl hydrazine, N,N-		280	280
57-55-6	Propylene Glycol		310	314
57-74-9	Chlordane		260	261
58-89-9	Hexachloro cyclohexane, 1,2,3,4,5,6-	Hexachloro cyclohexane, 1,2,3,4,5,6-	260	261
58-89-9	Lindane	Hexachloro cyclohexane, 1,2,3,4,5,6-	260	261
59-05-2	Methotrexate		990	991
60-12-8	Phenethyl alcohol, 2-		310	318
60-24-2	Hydroxy 1-ethanethiol, 2-	Hydroxy 1-ethanethiol, 2-	500	501
60-24-2	Hydroxy 1-ethanethiol, 2-	Hydroxy 1-ethanethiol, 2-	310	311
60-24-2	Mercapto ethanol	Hydroxy 1-ethanethiol, 2-	500	501
60-24-2	Mercapto ethanol	Hydroxy 1-ethanethiol, 2-	310	311
60-29-7	Diethyl ether	Diethyl ether	240	241
60-29-7	Ethyl ether	Diethyl ether	240	241
60-34-4	Methyl hydrazine		280	280
62-53-3	Amino benzene	Amino benzene::Benzenamine::Phenyl amine	140	145
62-53-3	Aniline	Amino benzene::Benzenamine::Phenyl amine	140	145
62-53-3	Benzenamine	Amino benzene::Benzenamine::Phenyl amine	140	145
62-53-3	Phenyl amine	Amino benzene::Benzenamine::Phenyl amine	140	145
62-75-9	Dimethyl nitrosamine	Methyl N-nitrosomethanamine, N-	450	450
62-75-9	Methyl N-nitrosomethanamine, N-	Methyl N-nitrosomethanamine, N-	450	450
64-17-5	Ethanol	Ethyl alcohol::Spiritus	310	311
64-17-5	Ethyl alcohol	Ethyl alcohol::Spiritus	310	311
64-17-5	Spiritus	Ethyl alcohol::Spiritus	310	311
64-18-6	Formic acid		100	102
64-19-7	Acetic acid		100	102
64-67-5	Diethyl sulfate	Sulfuric acid diethyl ester	500	507
64-67-5	Sulfuric acid diethyl ester	Sulfuric acid diethyl ester	500	507
67-56-1	Methanol		310	311
67-63-0	Isopropanol	Isopropanol::Isopropyl alcohol	310	312
67-63-0	Isopropyl alcohol	Isopropanol::Isopropyl alcohol	310	312
67-63-0	Propan -2-ol	Isopropanol::Isopropyl alcohol	310	312
67-64-1	Acetone	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
67-64-1	Dimethyl ketal	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
67-64-1	Dimethyl ketone	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
67-64-1	Ketone propane	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
67-64-1	Methyl acetyl	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
67-64-1	Methyl ketone	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
67-64-1	Propan -2-one	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
67-64-1	Pyroacetic ether	Dimethyl ketal::Dimethyl ketone::Ketone propane::Methyl acetyl::Methyl ketone::Propan -2-one::Pyroacetic ether	390	391
67-66-3	Chloroform	Trichloro methane	260	261
67-66-3	Trichloro methane	Trichloro methane	260	261
67-68-5	Dimethyl sulfoxide		500	503
68-11-1	Mercapto acetic acid	Mercapto acetic acid	500	501
68-11-1	Mercapto acetic acid	Mercapto acetic acid	100	103
68-11-1	Thioglycolic acid	Mercapto acetic acid	500	501
68-11-1	Thioglycolic acid	Mercapto acetic acid	100	103
68-12-2	Dimethyl formamide, N,N-		130	132
71-23-8	Propan -1-ol	Propanol, 1-::Propanol, n-::Propyl alcohol	310	311
71-23-8	Propanol, 1-	Propanol, 1-::Propanol, n-::Propyl alcohol	310	311
71-23-8	Propanol, n-	Propanol, 1-::Propanol, n-::Propyl alcohol	310	311
71-23-8	Propyl alcohol	Propanol, 1-::Propanol, n-::Propyl alcohol	310	311
71-36-3	Butanol, 1-	Butanol, n-::Butyl alcohol, n-	310	311
71-36-3	Butanol, n-	Butanol, n-::Butyl alcohol, n-	310	311
71-36-3	Butyl alcohol, n-	Butanol, n-::Butyl alcohol, n-	310	311
71-41-0	Amyl alcohol	Amyl alcohol	310	311
71-41-0	Pentanol, 1-	Amyl alcohol	310	311
71-43-2	Benzene		290	292
71-55-6	Methyl chloroform	Methyl chloroform::Methyl trichloromethane	260	261
71-55-6	Methyl trichloromethane	Methyl chloroform::Methyl trichloromethane	260	261
71-55-6	Trichloro ethane, 1,1,1-	Methyl chloroform::Methyl trichloromethane	260	261
74-83-9	Bromo methane	Bromo methane	260	261
74-83-9	Methyl bromide	Bromo methane	260	261
74-87-3	Methyl chloride		260	261
74-88-4	Iodomethane	Iodomethane	260	261
74-88-4	Methyl iodide	Iodomethane	260	261
74-89-5	Methyl amine		140	141
74-90-8	Hydrogen cyanide		350	350
74-90-8	Hydrogen cyanide		370	370

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74-90-8	Hydrogen cyanide		340	345
74-93-1	Methanethiol	Methanethiol	500	501
74-93-1	Methanethiol	Methanethiol	380	380
74-93-1	Methanethiol	Methanethiol	350	350
74-93-1	Methyl mercaptan	Methanethiol	380	380
74-93-1	Methyl mercaptan	Methanethiol	350	350
74-93-1	Methyl mercaptan	Methanethiol	500	501

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APPENDIX
CHEMICAL INDEX - Chemical Abstract System (CAS) Number - Chemical Names and Synonyms

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
74-95-3	Methylene bromide		260	261
74-98-6	Propane		290	291
75-00-3	Ethanoyl chloride	Ethanoyl chloride	260	261
75-00-3	Ethyl chloride	Ethanoyl chloride	260	261
75-01-4	Chloro ethene	Chloro ethene	260	264
75-01-4	Vinyl chloride	Chloro ethene	260	264
75-04-7	Ethyl amine		140	141
75-05-8	Acetonitrile	Cyanomethane::Ethane nitrile::Ethyl nitrile::Methyl cyanide	430	431
75-05-8	Cyanomethane	Cyanomethane::Ethane nitrile::Ethyl nitrile::Methyl cyanide	430	431
75-05-8	Ethane nitrile	Cyanomethane::Ethane nitrile::Ethyl nitrile::Methyl cyanide	430	431
75-05-8	Ethyl nitrile	Cyanomethane::Ethane nitrile::Ethyl nitrile::Methyl cyanide	430	431
75-05-8	Methyl cyanide	Cyanomethane::Ethane nitrile::Ethyl nitrile::Methyl cyanide	430	431
75-07-0	Acetaldehyde		120	121
75-08-1	Ethane thiol	Ethane thiol::Thioalkohol	500	501
75-08-1	Ethyl mercaptan	Ethane thiol::Thioalkohol	500	501
75-08-1	Thioalkohol	Ethane thiol::Thioalkohol	500	501
75-09-2	Dichloro methane	Methylene chloride	260	261
75-09-2	Methylene chloride	Methylene chloride	260	261
75-15-0	Carbon disulfide		500	502
75-18-3	Dimethyl sulfide		500	502
75-21-8	Epoxy ethane	Epoxy ethane	270	275
75-21-8	Ethylene oxide		270	275
75-25-2	Bromoform		260	261
75-31-0	Amino propane, 2-	Amino propane, 2-	140	141
75-31-0	Isopropyl amine	Amino propane, 2-	140	141
75-35-4	Dichloro ethylene, 1,1-	Dichloro ethylene, 1,1-	260	264
75-35-4	Vinylidene chloride	Dichloro ethylene, 1,1-	260	264
75-36-5	Acetic chloride	Acetic chloride::Ethanoyl chloride	110	111
75-36-5	Acetyl chloride	Acetic chloride::Ethanoyl chloride	110	111
75-36-5	Ethanoyl chloride	Acetic chloride::Ethanoyl chloride	110	111
75-44-5	Phosgene		350	350
75-46-7	Fluoroform	Fluoroform	260	261
75-46-7	Trifluoro methane	Fluoroform	260	261
75-50-3	Trimethyl amine		140	143
75-52-5	Nitro methane		440	441
75-55-8	Méthyl aziridine, 2-	Methyl aziridine, 2-	270	274
75-55-8	Propylene imine	Methyl aziridine, 2-	270	274
75-56-9	Epoxy propane, 1,2-	Epoxy propane, 1,2-	270	275
75-56-9	Propylene oxide, 1,2-	Epoxy propane, 1,2-	270	275
75-59-2	Tetramethyl ammonium hydroxide		550	550
75-64-9	Amino 2-methylpropane, 2-	Amino 2-methylpropane, 2-::Trimethyl aminomethane	140	143
75-64-9	Butyl amine, tert-	Amino 2-methylpropane, 2-::Trimethyl aminomethane	140	143
75-64-9	Trimethyl aminomethane	Amino 2-methylpropane, 2-::Trimethyl aminomethane	140	143
75-65-0	Butanol, tert-	Methyl propan-2-ol, 2-	310	313
75-65-0	Methyl propan-2-ol, 2-	Methyl propan-2-ol, 2-	310	313
75-73-0	Carbon tetrafluoride	Carbon tetrafluoride	260	261
75-73-0	Tetrafluoromethane	Carbon tetrafluoride	260	261
75-75-2	Methanesulphonic acid		500	504
75-78-5	Dimethyl dichlorosilane		480	480
75-79-6	Methyl trichlorosilane		480	480
75-85-4	2-Methyl-2-Butanol	2-Methyl-2-Butanol::Amyl alcohol, tert-	310	313
75-85-4	Amyl alcohol, tert-	2-Methyl-2-Butanol::Amyl alcohol, tert-	310	313
75-85-4	Pentanol, tert-	2-Methyl-2-Butanol::Amyl alcohol, tert-	310	313
75-86-5	Acetone cyanohydrin	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	310	313
75-86-5	Acetone cyanohydrin	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	430	431
75-86-5	Cyanopropan-2-ol, 2-	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	430	431
75-86-5	Cyanopropan-2-ol, 2-	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	310	313
75-86-5	Hydroxy 2-methylpropionitrile, 2-	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	310	313
75-86-5	Hydroxy 2-methylpropionitrile, 2-	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	430	431
75-86-5	Hydroxy isobutyronitrile	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	310	313
75-86-5	Hydroxy isobutyronitrile	Cyanopropan-2-ol, 2-::Hydroxy 2-methylpropionitrile, 2-::Hydroxy isobutyronitrile	430	431
75-89-8	Trifluoro ethanol, 2,2,2-		310	315
75-91-2	Tert-Butyl Hydroperoxide	Tert-Butyl Hydroperoxide	300	300
75-91-2	Tert-Butyl Hydroperoxide	Tert-Butyl Hydroperoxide	300	302
75-94-5	Trichlor vinylsilane		480	480
76-03-9	Trichloro acetic acid		100	103
76-05-1	Trifluoro acetic acid		260	261
76-05-1	Trifluoro acetic acid		100	103
76-06-2	Chlor trinitromethan	Chloro picrin::Nitro chlormethan	260	261
76-06-2	Chloro picrin	Chloro picrin::Nitro chlormethan	260	261
76-06-2	Nitro chlormethan	Chloro picrin::Nitro chlormethan	260	261
76-13-1	Trichloro 1,2,2-trifluoroethane, 1,1,2-		260	261
76-16-4	Hexafluoro ethane	Perfluoroethane	260	261
76-16-4	Perfluoroethane	Perfluoroethane	260	261
77-78-1	Dimethyl sulfate	Sulfuric acid dimethyl ester	500	507
77-78-1	Sulfuric acid dimethyl ester	Sulfuric acid dimethyl ester	500	507
77-81-6	Tabun (GA), FINABEL 0.7.C		460	462
77-81-6	Tabun (GA), MIL-STD-282		460	462
77-92-9	Citric acid	Hydroxy 1,2,3-propanetricarboxylic acid, 2-	100	104
77-92-9	Hydroxy 1,2,3-propanetricarboxylic acid, 2-	Hydroxy 1,2,3-propanetricarboxylic acid, 2-	100	104
77-98-5	Tetraethyl ammonium hydroxide		550	550
77-98-5	Tetraethyl ammonium hydroxide		150	150
78-00-2	Tetraethyl lead		470	470
78-10-4	Tetraethoxysilane		480	480

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78-40-0	Triethyl Phosphate		460	462
78-83-1	Isobutanol		310	312
78-83-1	Isobutanol		310	311
78-87-5	Propylene dichloride		260	261
78-88-6	Dichloro propene, 2,3-		260	261
78-93-3	Butanone	Butanone::MEK	390	391

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APPENDIX
CHEMICAL INDEX - Chemical Abstract System (CAS) Number - Chemical Names and Synonyms

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
78-93-3	MEK	Butanone::MEK	390	391
78-93-3	Methyl ethyl ketone	Butanone::MEK	390	391
78-94-4	But-3-en-2-one	But-3-en-2-one	390	391
78-94-4	Methyl vinyl ketone	But-3-en-2-one	390	391
78-95-5	Chloro acetone	Chloro propan-2-one, 1-	390	391
78-95-5	Chloro propan-2-one, 1-	Chloro propan-2-one, 1-	390	391
79-00-5	Ethane trichloride	Ethane trichloride	260	261
79-00-5	Trichloro ethane, 1,1,2-	Ethane trichloride	260	261
79-01-6	Ethylene trichloride	Ethylene trichloride	260	264
79-01-6	Trichloro ethylene	Ethylene trichloride	260	264
79-04-9	Chloro acetyl chloride		110	111
79-06-1	Acrylamide	Acrylicamide::Propenamide	130	135
79-06-1	Acrylicamide	Acrylicamide::Propenamide	130	135
79-06-1	Propenamide	Acrylicamide::Propenamide	130	135
79-09-4	Propanoic acid		100	102
79-10-7	Acroleic acid	Acroleic acid::Ethylene carboxylic acid::Propene acid	100	102
79-10-7	Acrylic acid	Acroleic acid::Ethylene carboxylic acid::Propene acid	100	102
79-10-7	Ethylene carboxylic acid	Acroleic acid::Ethylene carboxylic acid::Propene acid	100	102
79-10-7	Propene acid	Acroleic acid::Ethylene carboxylic acid::Propene acid	100	102
79-11-8	Chloro acetic acid		100	103
79-14-1	Glycolic acid	Hydroxy acetic acid	100	103
79-14-1	Hydroxy acetic acid	Hydroxy acetic acid	100	103
79-20-9	Methyl Acetate		220	222
79-21-0	Peracetic Acid		100	102
79-21-0	Peracetic Acid		300	300
79-21-0	Peracetic Acid		300	302
79-22-1	Methyl chloro formate		110	113
79-34-5	Tetrachloro ethane, 1,1,2,2,-		260	261
79-36-7	Dichloro acetyl chloride		110	111
79-41-4	Methacrylic acid	Methyl propenoic acid, 2-	100	102
79-41-4	Methyl propenoic acid, 2-	Methyl propenoic acid, 2-	100	102
79-46-9	Nitro propane, 2-		440	441
79-95-8	Tetrachloro bisphenol-A, 2,2',6,6'-		260	263
79-95-8	Tetrachloro bisphenol-A, 2,2',6,6'-		310	316
80-62-6	Methyl 2-methyl-2-propenoate	Methyl 2-methyl-2-propenoate	220	223
80-62-6	Methyl methacrylate	Methyl 2-methyl-2-propenoate	220	223
84-74-2	Dibutyl 1,2-benzenedicarboxylate	Dibutyl 1,2-benzenedicarboxylate	220	226
84-74-2	Dibutyl phthalate	Dibutyl 1,2-benzenedicarboxylate	220	226
87-68-3	Hexachloro butadiene		260	264
87-86-5	Pentachlorophenol		310	316
88-12-0	Vinyl Pyrrolidinone		270	274
88-72-2	Nitro toluene, 2-		440	442
88-73-3	Chloro 2-nitrobenzene, 1-	Chloro 2-nitrobenzene, 1-	440	442
88-73-3	Chloro 2-nitrobenzene, 1-	Chloro 2-nitrobenzene, 1-	260	263
88-75-5	Hydroxy 2-nitrobenzene, 1-	Hydroxy 2-nitrobenzene, 1-	440	442
88-75-5	Hydroxy 2-nitrobenzene, 1-	Hydroxy 2-nitrobenzene, 1-	310	316
88-75-5	Nitro phenol, o-	Hydroxy 2-nitrobenzene, 1-	310	316
88-75-5	Nitro phenol, o-	Hydroxy 2-nitrobenzene, 1-	440	442
91-20-3	Naphthalene		290	293
91-66-7	Diethyl aniline crude		140	146
91-66-7	Diethyl aniline, N,N-		140	146
91-67-8	Diethyl m-toluidine, N,N-		140	145
92-67-1	Amino diphenyl, 4-		140	145
92-87-5	Benzidine	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	145
92-87-5	Benzidine	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	149
92-87-5	Biphenyl 4,4'-diamine, 1,1'-	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	149
92-87-5	Biphenyl 4,4'-diamine, 1,1'-	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	145
92-87-5	Diaminobiphenyl, 4,4'-	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	145
92-87-5	Diaminobiphenyl, 4,4'-	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	149
92-87-5	Diaminodiphenyl, p-	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	149
92-87-5	Diaminodiphenyl, p-	Biphenyl 4,4'-diamine, 1,1'-::Diaminobiphenyl, 4,4'-::Diaminodiphenyl, p-	140	145
95-47-6	Xylene, o-		290	292
95-48-7	Cresol o-	Hydroxy toluene, o-	310	316
95-48-7	Hydroxy toluene, o-	Hydroxy toluene, o-	310	316
95-49-8	Chloro 1-methylbenzene, 2-	Chloro 1-methylbenzene, 2-	310	316
95-49-8	Chloro 1-methylbenzene, 2-	Chloro 1-methylbenzene, 2-	260	263
95-49-8	Chloro toluene, o-	Chloro 1-methylbenzene, 2-	260	263
95-49-8	Chloro toluene, o-	Chloro 1-methylbenzene, 2-	310	316
95-50-1	Dichlorbenzen, 1,2-		260	263
95-53-4	Methyl aniline, o-	Methyl aniline, o-	140	145
95-53-4	Toluidine, o-	Methyl aniline, o-	140	145
95-68-1	Xylidine, 2,4-		140	145
95-76-1	Amino 3,4-dichlorobenzene, 1-	Amino 3,4-dichlorobenzene, 1-	260	263
95-76-1	Amino 3,4-dichlorobenzene, 1-	Amino 3,4-dichlorobenzene, 1-	140	145
95-76-1	Dichloro aniline, 3,4-	Amino 3,4-dichlorobenzene, 1-	260	263
95-76-1	Dichloro aniline, 3,4-	Amino 3,4-dichlorobenzene, 1-	140	145
96-12-8	Dibromo -3-chloropropane, 1,2-		260	261
96-24-2	Chloro 1,2-propanediol, 3-		310	314
96-29-7	Butanone oxime, 2-	Butanone oxime, 2-	150	150
96-29-7	Methyl ethyl ketoxime	Butanone oxime, 2-	150	150
96-33-3	Methyl acrylate		220	223
96-47-9	2-Methyltetrahydrofuran		240	241
96-47-9	2-Methyltetrahydrofuran		270	277
96-49-1	Ethylene Carbonate solution		270	278
96-64-0	Soman (GD), FINABEL 0.7 C		460	462

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96-64-0	Soman (GD), MIL-STD-282		460	462
97-93-8	Triethyl aluminum		470	470
97-95-0	Ethyl Butanol		310	312
98-01-1	Furaldehyde, 2-	Furaldehyde, 2-	270	277
98-01-1	Furfural	Furaldehyde, 2-	270	277

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APPENDIX
CHEMICAL INDEX - Chemical Abstract System (CAS) Number - Chemical Names and Synonyms

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
98-07-7	Benzo trichloride		260	263
98-08-8	Triflouromethylbenzene		260	263
98-09-9	Benzene sulfone chloride	Benzene sulfone chloride	500	505
98-09-9	Benzene sulfonyl chloride	Benzene sulfone chloride	500	505
98-13-5	Phenyl trichlorosilane	Phenyl trichlorosilane	480	480
98-13-5	Trichloro phenylsilane	Phenyl trichlorosilane	480	480
98-51-1	P-Tert Butyl Toluene		290	292
98-56-6	Chloro benzotrifluoride, 4-		260	263
98-82-8	Cumene	Isopropyl benzene::Phenyl propane, 2-	290	292
98-82-8	Isopropyl benzene	Isopropyl benzene::Phenyl propane, 2-	290	292
98-82-8	Phenyl propane, 2-	Isopropyl benzene::Phenyl propane, 2-	290	292
98-85-1	Phenyl ethanol, 1-		310	318
98-88-4	Benzene carbonyl chloride	Benzene carbonyl chloride	110	112
98-88-4	Benzoyl chloride	Benzene carbonyl chloride	110	112
98-95-3	Nitro benzene		440	441
99-63-8	Isophthaloyldichloride		110	112
99-99-0	Nitro toluene, p-		440	442
100-00-5	Nitro chlorobenzene, p-		440	442
100-00-5	Nitro chlorobenzene, p-		260	263
100-41-4	Ethyl benzene	Phenyl ethane	290	292
100-41-4	Phenyl ethane	Phenyl ethane	290	292
100-42-5	Phenethylene	Phenethylene::Vinyl benzol	290	292
100-42-5	Styrene	Phenethylene::Vinyl benzol	290	292
100-42-5	Vinyl benzol	Phenethylene::Vinyl benzol	290	292
100-43-6	Vinyl pyridine, 4-		270	271
100-44-7	Benzyl chloride	Chloro toluene, alpha-	260	266
100-44-7	Chloro toluene, alpha-	Chloro toluene, alpha-	260	266
100-47-0	Benzo nitrile	Cyanobenzene::Phenyl cyanide	430	432
100-47-0	Cyanobenzene	Cyanobenzene::Phenyl cyanide	430	432
100-47-0	Phenyl cyanide	Cyanobenzene::Phenyl cyanide	430	432
100-51-6	Benzyl alcohol	Hydroxy toluene	310	312
100-51-6	Hydroxy toluene	Hydroxy toluene	310	312
100-52-7	Benzaldehyde	Benzaldehyde	120	122
101-14-4	Dichloro -4,4'-methylenedianiline, 2,2'-	Dichloro -4,4'-methylenedianiline, 2,2'-	140	149
101-14-4	Methylene bis(2-Chloroaniline), 4,4-	Dichloro -4,4'-methylenedianiline, 2,2'-	140	149
101-68-8	Diphenyl methane diisocyanate, 4,4'-	Methylene diphenyl diisocyanate, 4,4'-	210	212
101-68-8	Methylene diphenyl diisocyanate, 4,4'-	Methylene diphenyl diisocyanate, 4,4'-	210	212
101-77-9	Diaminodiphenylmethane, 4,4'-	Diaminodiphenylmethane, 4,4'-	140	149
101-77-9	Diaminodiphenylmethane, 4,4'-	Diaminodiphenylmethane, 4,4'-	140	145
101-77-9	Methylene dianiline	Diaminodiphenylmethane, 4,4'-	140	149
101-77-9	Methylene dianiline	Diaminodiphenylmethane, 4,4'-	140	145
102-69-2	Tripropyl amine		140	143
102-71-6	Triethanolamine		140	143
102-82-9	Tributyl amine		140	143
102-82-9	Tributyl amine		140	148
103-67-3	Benzyl methylamine, N-	Methyl benzylamine, N-	290	292
103-67-3	Benzyl methylamine, N-	Methyl benzylamine, N-	140	146
103-67-3	Methyl benzylamine, N-	Methyl benzylamine, N-	140	146
103-67-3	Methyl benzylamine, N-	Methyl benzylamine, N-	290	292
104-49-4	Paraphenylene diisocyanate (PPDI) crude		210	212
105-39-5	Chloroacetic ethylester		220	222
105-44-2	Methyl Isobutyl Ketoxime		150	150
106-46-7	Dichlorbenzen, 1,4-		260	263
106-47-8	Chloro aniline, p-	Chloro benzenamine, 4-	140	145
106-47-8	Chloro benzenamine, 4-	Chloro benzenamine, 4-	140	145
106-48-9	Chloro phenol, p-	Hydroxy chlorobenzene	310	316
106-48-9	Chloro phenol, p-	Hydroxy chlorobenzene	260	263
106-48-9	Hydroxy chlorobenzene	Hydroxy chlorobenzene	260	263
106-48-9	Hydroxy chlorobenzene	Hydroxy chlorobenzene	310	316
106-89-8	Chloro 2,3-epoxy propane, 1-	Chloro 2,3-epoxy propane, 1-	270	275
106-89-8	Chloro 2,3-epoxy propane, 1-	Chloro 2,3-epoxy propane, 1-	260	261
106-89-8	Epichlorohydrin	Chloro 2,3-epoxy propane, 1-	270	275
106-89-8	Epichlorohydrin	Chloro 2,3-epoxy propane, 1-	260	261
106-93-4	Dibromoethane, 1,2-	Dibromoethane, 1,2-	260	261
106-93-4	Ethylene dibromide	Dibromoethane, 1,2-	260	261
106-94-5	Propyl bromide, n-		260	261
106-99-0	Butadiene, 1,3-	Vinyl ethylene	290	296
106-99-0	Vinyl ethylene	Vinyl ethylene	290	296
107-02-8	Acrolein	Prop-2-en-1-al	120	121
107-02-8	Prop-2-en-1-al	Prop-2-en-1-al	120	121
107-05-1	Allyl chloride	Chlor allylene::Chloro prene, 3-	260	265
107-05-1	Chlor allylene	Chlor allylene::Chloro prene, 3-	260	265
107-05-1	Chloro prene, 3-	Chlor allylene::Chloro prene, 3-	260	265
107-06-2	Dichlorethane, 1.2.-	Ethylene dichloride	260	261
107-06-2	Ethylene dichloride	Ethylene dichloride	260	261
107-07-3	Chloro ethanol, 2-	Ethylene chlorohydrin::Glycol chlorohydrin	310	315
107-07-3	Chloro ethanol, 2-	Ethylene chlorohydrin::Glycol chlorohydrin	260	261
107-07-3	Ethylene chlorohydrin	Ethylene chlorohydrin::Glycol chlorohydrin	310	315
107-07-3	Ethylene chlorohydrin	Ethylene chlorohydrin::Glycol chlorohydrin	260	261
107-07-3	Glycol chlorohydrin	Ethylene chlorohydrin::Glycol chlorohydrin	310	315
107-07-3	Glycol chlorohydrin	Ethylene chlorohydrin::Glycol chlorohydrin	260	261
107-10-8	Propyl amine, n-		140	141
107-13-1	Acrylonitrile	Cyanoethylene::Propenenitrile, 2-:: Propenoic acid nitrile::Vinyl cyanide	430	431
107-13-1	Cyanoethylene	Cyanoethylene::Propenenitrile, 2-:: Propenoic acid nitrile::Vinyl cyanide	430	431
107-13-1	Propenenitrile, 2-	Cyanoethylene::Propenenitrile, 2-:: Propenoic acid nitrile::Vinyl cyanide	430	431
107-13-1	Propenoic acid nitrile	Cyanoethylene::Propenenitrile, 2-:: Propenoic acid nitrile::Vinyl cyanide	430	431
107-13-1	Vinyl cyanide	Cyanoethylene::Propenenitrile, 2-:: Propenoic acid nitrile::Vinyl cyanide	430	431
107-15-3	Diaminoethane, 1,2-	Diaminoethane, 1,2-	140	148
107-15-3	Ethylene diamine	Diaminoethane, 1,2-	140	148

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107-18-6	Allyl alcohol	Hydroxy propene::Propen 1-ol, 2-::Vinyl carbinol	310	311

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APPENDIX
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CAS Number	Chemical Name	Synonym	Class	Sub-Class
107-18-6	Hydroxy propene	Hydroxy propene::Propen 1-ol, 2-::Vinyl carbinol	310	311
107-18-6	Propen 1-ol, 2-	Hydroxy propene::Propen 1-ol, 2-::Vinyl carbinol	310	311
107-18-6	Vinyl carbinol	Hydroxy propene::Propen 1-ol, 2-::Vinyl carbinol	310	311
107-19-7	Prop-2-yn-1-ol	Prop-2-yn-1-ol	310	311
107-19-7	Propargyl alcohol	Prop-2-yn-1-ol	310	311
107-21-1	Ethane 1,2-diol	Ethane 1,2-diol::Glycol alcohol	310	314
107-21-1	Ethylene glycol	Ethane 1,2-diol::Glycol alcohol	310	314
107-21-1	Glycol alcohol	Ethane 1,2-diol::Glycol alcohol	310	314
107-30-2	Chloro methyl methyl ether	Methoxy chloromethane	240	241
107-30-2	Methoxy chloromethane	Methoxy chloromethane	240	241
107-31-3	Methyl formate		220	221
107-44-8	Sarin (GB), MIL-STD-282		460	462
107-87-9	Methyl Propyl Ketone		390	391
107-92-6	Butyric Acid		100	102
108-05-4	Acetic acid ethenyl ester	Acetic acid ethenyl ester	220	222
108-05-4	Vinyl acetate	Acetic acid ethenyl ester	220	222
108-10-1	Hexone	Isobutyl methyl ketone::Methyl pentan-2-one, 4-	390	391
108-10-1	Isobutyl methyl ketone	Isobutyl methyl ketone::Methyl pentan-2-one, 4-	390	391
108-10-1	Methyl pentan-2-one, 4-	Isobutyl methyl ketone::Methyl pentan-2-one, 4-	390	391
108-21-4	Isopropyl Acetate	Isopropyl ethanoate	220	222
108-24-7	Acetic anhydride		160	161
108-31-6	Maleic anhydride		160	161
108-44-1	Toluidine, m-		140	145
108-59-8	Dimethyl malonate	Dimethyl propandioate	220	220
108-59-8	Dimethyl malonate	Dimethyl propandioate	220	224
108-59-8	Dimethyl propandioate	Dimethyl propandioate	220	220
108-59-8	Dimethyl propandioate	Dimethyl propandioate	220	224
108-77-0	Cyanide chloride	Trichloro 1,3,5-triazine, 2,4,6-	260	263
108-77-0	Cyanide chloride	Trichloro 1,3,5-triazine, 2,4,6-	270	274
108-77-0	Trichloro 1,3,5-triazine, 2,4,6-	Trichloro 1,3,5-triazine, 2,4,6-	270	274
108-77-0	Trichloro 1,3,5-triazine, 2,4,6-	Trichloro 1,3,5-triazine, 2,4,6-	260	263
108-83-8	Di Isobutyl Ketone	Dimethyl-4-Heptanone, 2,6-	390	391
108-83-8	Dimethyl-4-Heptanone, 2,6-	Dimethyl-4-Heptanone, 2,6-	390	391
108-87-2	Methylcyclohexane	Cyclohexylmethane	290	291
108-88-3	Methyl benzol	Methyl benzol	290	292
108-88-3	Toluene	Methyl benzol	290	292
108-90-7	Chloro benzene	Phenyl chloride	260	263
108-90-7	Phenyl chloride	Phenyl chloride	260	263
108-93-0	Cyclohexanol	Hexalin	310	312
108-93-0	Hexalin	Hexalin	310	312
108-94-1	Cyclo hexanone	Hexanone::Pimelic ketone	390	391
108-94-1	Hexanone	Hexanone::Pimelic ketone	390	391
108-94-1	Pimelic ketone	Hexanone::Pimelic ketone	390	391
108-95-2	Phenol		310	316
108-98-5	Benzene thiol	Benzene thiol::Thiophenol	500	501
108-98-5	Phenyl mercaptan	Benzene thiol::Thiophenol	500	501
108-98-5	Thiophenol	Benzene thiol::Thiophenol	500	501
108-99-6	Methyl pyridine, 3-	Methyl pyridine, 3-	270	271
108-99-6	Picoline, 3-	Methyl pyridine, 3-	270	271
109-02-4	N-Methylmorpholine (NMM)		270	278
109-02-4	N-Methylmorpholine (NMM)		270	274
109-06-8	Methyl pyridine, 2-	Methyl pyridine, 2-	270	271
109-06-8	Picoline, 2-	Methyl pyridine, 2-	270	271
109-43-3	Dibutyl sebacate		220	224
109-52-4	Pentanoic acid		290	291
109-55-7	1,3-Propanediamine, N,N'-Dimethyl		140	148
109-60-4	Propyl Acetate		220	222
109-61-5	Propychloroformate		220	221
109-61-5	Propychloroformate		110	113
109-61-5	Propychloroformate		260	260
109-63-7	Boron fluoride ethyl ether	Boron fluoride ethyl ether::Boron trifluoride diethyl etherate	590	590
109-63-7	Boron trifluoride diethyl etherate	Boron fluoride ethyl ether::Boron trifluoride diethyl etherate	590	590
109-63-7	Boron trifluoride etherate	Boron fluoride ethyl ether::Boron trifluoride diethyl etherate	590	590
109-65-9	1-Bromobutane	Butyl bromide	260	261
109-66-0	Pentane		290	291
109-73-9	Butyl amine		140	141
109-86-4	Ethylene glycol monomethyl ether	Ethylene glycol monomethyl ether	240	245
109-86-4	Ethylene glycol monomethyl ether	Ethylene glycol monomethyl ether	310	311
109-86-4	Methoxy ethanol, 2	Ethylene glycol monomethyl ether	310	311
109-86-4	Methoxy ethanol, 2	Ethylene glycol monomethyl ether	240	245
109-89-7	Diethyl amine	Ethyl ethanamine, N-	140	142
109-89-7	Ethyl ethanamine, N-	Ethyl ethanamine, N-	140	142
109-99-9	Tetrahydrofuran		270	277
110-00-9	Furan		270	277
110-18-9	Tetramethylethylene diamine (TMEDA)		140	148
110-49-6	Acetic acid 2 methoxy ethyl ester	Acetic acid 2 methoxy ethyl ester::Ethylene glycol monomethyl ether acetate	240	245
110-49-6	Ethylene glycol monomethyl ether acetate	Acetic acid 2 methoxy ethyl ester::Ethylene glycol monomethyl ether acetate	240	245
110-49-6	Methoxy ethylacetate, 2-	Acetic acid 2 methoxy ethyl ester::Ethylene glycol monomethyl ether acetate	240	245
110-54-3	Hexane, n-		290	291
110-80-5	Cellosolve acetate	Cellosolve acetate::Ethyl Cellosolve®::Ethylene glycol monoethyl ether	240	245
110-80-5	Ethoxy ethanol, 2-	Cellosolve acetate::Ethyl Cellosolve®::Ethylene glycol monoethyl ether	240	245
110-80-5	Ethyl Cellosolve®	Cellosolve acetate::Ethyl Cellosolve®::Ethylene glycol monoethyl ether	240	245
110-80-5	Ethylene glycol monoethyl ether	Cellosolve acetate::Ethyl Cellosolve®::Ethylene glycol monoethyl ether	240	245
110-82-7	Cyclo hexane		290	291
110-86-1	Pyridine		270	271
110-91-8	Diethylene imide oxide	Diethylene imide oxide	270	278
110-91-8	Diethylene imide oxide	Diethylene imide oxide	270	274
110-91-8	Morpholine	Diethylene imide oxide	270	274

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110-91-8	Morpholine	Diethylene imide oxide	270	274
110-91-8	Morpholine	Diethylene imide oxide	270	278
111-15-9	Acetic acid 2 ethoxy ethyl ester	Acetic acid 2 ethoxy ethyl ester::Ethyl glycol acetate::Ethylene glycol mono ethyl ether acetate	240	245

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APPENDIX
CHEMICAL INDEX - Chemical Abstract System (CAS) Number - Chemical Names and Synonyms

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
111-15-9	Ethoxy ethylacetat	Acetic acid 2 ethoxy ethyl ester::Ethyl glycol acetate::Ethylene glycol mono ethyl ether acetate	240	245
111-15-9	Ethyl glycol acetate	Acetic acid 2 ethoxy ethyl ester::Ethyl glycol acetate::Ethylene glycol mono ethyl ether acetate	240	245
111-15-9	Ethylene glycol mono ethyl ether acetate	Acetic acid 2 ethoxy ethyl ester::Ethyl glycol acetate::Ethylene glycol mono ethyl ether acetate	240	245
111-30-8	Glutaral	Glutaral::Pentanedial, 1,5-	120	121
111-30-8	Glutaraldehyde	Glutaral::Pentanedial, 1,5-	120	121
111-30-8	Pentanedial, 1,5-	Glutaral::Pentanedial, 1,5-	120	121
111-40-0	Diethylene triamine		140	148
111-41-1	Amino ethylethanolamine		140	142
111-41-1	Amino ethylethanolamine		310	311
111-41-1	Amino ethylethanolamine		140	148
111-42-2	Diethanolamine		140	142
111-44-4	Dichloro ethyl ether		240	241
111-44-4	Dichloro ethyl ether		260	261
111-46-6	Diethylene Glycol		310	314
111-65-9	Octane, n-		290	291
111-69-3	Adipic acid dinitrile	Adipic acid dinitrile::Adipic acid nitrile:: Adipyl dinitrile::Dicyanobutane, 1,4-	430	431
111-69-3	Adipic acid nitrile	Adipic acid dinitrile::Adipic acid nitrile:: Adipyl dinitrile::Dicyanobutane, 1,4-	430	431
111-69-3	Adiponitrile	Adipic acid dinitrile::Adipic acid nitrile:: Adipyl dinitrile::Dicyanobutane, 1,4-	430	431
111-69-3	Dicyanobutane, 1,4-	Adipic acid dinitrile::Adipic acid nitrile:: Adipyl dinitrile::Dicyanobutane, 1,4-	430	431
111-76-2	Butoxy ethanol, 2-	Ethylene glycol monobutyl ether	240	245
111-76-2	Ethylene glycol monobutyl ether	Ethylene glycol monobutyl ether	240	245
111-77-3	Diethylene Glycol Monomethyl Ether		240	245
111-87-5	Octanol, n-		310	311
111-90-0	2-(2-Ethoxyethoxy) ethanol		240	245
112-07-2	Butyl Cellosolve Acetate		240	245
112-24-3	Triethylentetramine		140	141
112-24-3	Triethylentetramine		140	148
112-25-4	Ethylene Glycol Monohexyl Ether		240	245
112-34-5	2-(2-Butoxyethoxy) ethanol	Diethylene glycol monobutyl ether	310	311
112-34-5	2-(2-Butoxyethoxy) ethanol	Diethylene glycol monobutyl ether	240	245
112-34-5	Diethylene glycol monobutyl ether	Diethylene glycol monobutyl ether	310	311
112-34-5	Diethylene glycol monobutyl ether	Diethylene glycol monobutyl ether	240	245
112-35-6	Methoxytriglycol		240	245
112-50-5	Ethoxytriglycol		240	245
112-57-2	Tetraethylene pentamine		140	148
112-57-2	Tetraethylene pentamine		140	141
112-59-4	Hexyl Carbitol Solvent		240	245
112-80-1	Oleic Acid		100	102
115-10-6	Dimethyl ether		240	241
115-20-8	Trichloro ethanol, 2,2,2-		310	315
117-81-7	DEHP	DEHP	220	226
117-81-7	Diethyl hexyl phthalate	DEHP	220	226
119-36-8	Methyl salicylate		220	226
120-12-7	Anthracene	Anthracin	290	293
120-12-7	Anthracin	Anthracin	290	293
120-82-1	Trichloro benzene, 1,2,4-		260	263
121-44-8	Diethyl ethanamine, N,N-	Diethyl ethanamine, N,N-	140	143
121-44-8	Triethyl amine	Diethyl ethanamine, N,N-	140	143
121-45-9	Trimethyl phosphite		460	462
121-69-7	Dimethyl aniline, N,N-	Dimethyl phenylamine, N,N-	140	146
121-69-7	Dimethyl phenylamine, N,N-	Dimethyl phenylamine, N,N-	140	146
121-75-5	Malathion		460	462
122-60-1	Phenyl glycidyl ether		270	275
123-39-7	Methyl formamide, N-		130	132
123-42-2	Diacetone Alcohol		390	391
123-51-3	Isoamyl alcohol	Methyl butan-1-ol, 3-	310	312
123-51-3	Methyl butan-1-ol, 3-	Methyl butan-1-ol, 3-	310	312
123-72-8	Butanal, n-	Butyraldehyde, n-	120	121
123-72-8	Butyraldehyde, n-	Butyraldehyde, n-	120	121
123-73-9	Butenal, 2-	Butenal, 2-::Ethane diol dipropanoate, 1,2-::Methyl acrolein::Propylene aldehyde	120	121
123-73-9	Croton aldehyde	Butenal, 2-::Ethane diol dipropanoate, 1,2-::Methyl acrolein::Propylene aldehyde	120	121
123-73-9	Ethane diol dipropanoate, 1,2-	Butenal, 2-::Ethane diol dipropanoate, 1,2-::Methyl acrolein::Propylene aldehyde	120	121
123-73-9	Methyl acrolein	Butenal, 2-::Ethane diol dipropanoate, 1,2-::Methyl acrolein::Propylene aldehyde	120	121
123-73-9	Propylene aldehyde	Butenal, 2-::Ethane diol dipropanoate, 1,2-::Methyl acrolein::Propylene aldehyde	120	121
123-75-1	Azolidine	Azolidine	270	274
123-75-1	Pyrrolidine	Azolidine	270	274
123-86-4	Butyl acetate, n-		220	222
123-91-1	Dioxane, 1,4-		270	278
123-92-2	Iso Amyl Acetate		220	222
124-09-4	Hexamethylene diamine		140	148
124-40-3	Dimethyl amine		140	142
124-41-4	Sodium methylate		550	550
124-63-0	Methanesulfonyl chloride		500	505
126-73-8	Skydrol 500 B-4		460	462
126-73-8	Tributyl phosphate		460	462
127-08-2	Potassium acetate		340	340
127-09-3	Sodium acetate		550	550
127-18-4	Ethylene tetrachloride	Ethylene tetrachloride	260	264
127-18-4	Tetrachloro ethylene, 1,1,2,2-	Ethylene tetrachloride	260	264
127-19-5	Dimethyl acetamide N,N-		130	132
140-29-4	Benzyl cyanide	Phenyl acetonitrile	430	432
140-29-4	Phenyl acetonitrile	Phenyl acetonitrile	430	432
140-31-8	Amino ethylpiperazine		140	148
140-31-8	Amino ethylpiperazine		270	274
140-31-8	Amino ethylpiperazine		140	141
140-88-5	Acrylic acid ethyl ester	Acrylic acid ethyl ester	220	223
140-88-5	Ethyl acrylate	Acrylic acid ethyl ester	220	223
141-32-2	Acrylic acid n-butyl ester	Acrylic acid n-butyl ester::Propenoic acid butyl ester, 2-	220	223
141-32-2	Butyl acrylate, n-	Acrylic acid n-butyl ester::Propenoic acid butyl ester, 2-	220	223
141-32-2	Propenoic acid butyl ester, 2-	Acrylic acid n-butyl ester::Propenoic acid butyl ester, 2-	220	223

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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APPENDIX
CHEMICAL INDEX - Chemical Abstract System (CAS) Number - Chemical Names and Synonyms

CAS Number	Chemical Name	Synonym	Class	Sub-Class
141-43-5	Amino ethanol, 2-	Amino ethanol, 2-	310	311
141-43-5	Amino ethanol, 2-	Amino ethanol, 2-	140	141
141-43-5	Ethanol amine	Amino ethanol, 2-	140	141
141-43-5	Ethanol amine	Amino ethanol, 2-	310	311
141-78-6	Acetic acid ethyl ester	Acetic acid ethyl ester	220	222
141-78-6	Ethyl acetate	Acetic acid ethyl ester	220	222
142-82-5	Heptane		290	291
142-96-1	Butyl ether, n-		240	241
143-22-6	Butoxytriglycol		240	245
143-33-9	Sodium cyanide		340	345
144-62-7	Ethane dioic acid	Ethane dioic acid	100	104
144-62-7	Oxalic acid	Ethane dioic acid	100	104
149-57-5	Ethyl hexanoic acid		100	102
151-50-8	Potassium cyanide		340	345
151-56-4	Aziridine	Aziridine	270	274
151-56-4	Ethylene imine	Aziridine	270	274
154-93-8	Carmustine		990	991
288-47-1	Thiazol, 1,3-		270	274
302-01-2	Hydrazine		280	280
328-84-7	Benzene, Dichloro-4-Trifluoro		260	263
353-42-4	Boron trifluoride dimethyl etherate		590	590
382-10-5	Hexafluoro isobutylene	Trifluoro 2-(trifluoromethyl)propene, 3,3,3-	260	261
382-10-5	Trifluoro 2-(trifluoromethyl)propene, 3,3,3-	Trifluoro 2-(trifluoromethyl)propene, 3,3,3-	260	261
420-04-2	Cyanamide		130	132
460-00-4	Bromo 4-fluorobenzene, 1-	Bromo 4-fluorobenzene, 1-	260	263
460-00-4	Bromo fluorobenzene, 4-	Bromo 4-fluorobenzene, 1-	260	263
461-82-5	Anilin, 4-Trifluoromethoxy-		140	145
462-06-6	Fluorobenzene		260	263
501-53-1	Benzyl chloro formate		110	113
503-38-8	Diphosgene		260	260
503-38-8	Diphosgene		110	113
503-38-8	Diphosgene		220	221
504-29-0	Amino pyridine, 2-		270	271
505-60-2	Sulfur Mustard (HD), FINABEL 0.7.C		500	502
505-60-2	Sulfur Mustard (HD), MIL-STD-282		500	502
512-56-1	Phosphoric acid trimethyl ester	Phosphoric acid trimethyl ester	460	462
512-56-1	Trimethyl phosphate	Phosphoric acid trimethyl ester	460	462
513-42-8	Methallyl Alcohol		310	311
534-07-6	Dichloro -2-propanone, 1,3-	Dichloro -2-propanone, 1,3-	260	261
534-07-6	Dichloro -2-propanone, 1,3-	Dichloro -2-propanone, 1,3-	390	391
534-07-6	Dichloro acetone, 1,3-	Dichloro -2-propanone, 1,3-	390	391
534-07-6	Dichloro acetone, 1,3-	Dichloro -2-propanone, 1,3-	260	261
534-52-1	Dinitro-o-cresol, 4,6-	Dinitro-o-cresol, 4,6-	440	442
534-52-1	Dinitro-o-cresol, 4,6-	Dinitro-o-cresol, 4,6-	310	316
534-52-1	Dinitrocresol	Dinitro-o-cresol, 4,6-	440	442
534-52-1	Dinitrocresol	Dinitro-o-cresol, 4,6-	310	316
541-25-3	Lewisite (L), FINABEL 0.7.C		470	470
541-25-3	Lewisite (L), MIL-STD-282		470	470
541-41-3	Ethylchloroformate		260	260
541-41-3	Ethylchloroformate		220	221
541-41-3	Ethylchloroformate		110	113
541-73-1	Dichlorbenzen, 1,3-		260	263
542-75-6	Dichloro propene, 1,3-		260	261
546-68-9	Titanium (IV) isopropoxide	Titanium tetraisopropoxide	470	470
563-80-4	Methyl Isopropyl Ketone		390	391
584-08-7	Potassium carbonate		340	340
584-84-9	Toluene diisocyanate, 2,4-		210	212
592-34-7	Butylchloroformate		110	113
592-34-7	Butylchloroformate		260	260
592-34-7	Butylchloroformate		220	221
592-41-6	Hexene		290	294
593-53-3	Methyl fluoride		260	261
593-74-8	Dimethyl mercury in decane		470	470
594-27-4	Tetramethyl tin		470	470
594-45-6	Ethansulphonic acid		500	504
616-38-6	Dimethyl Carbonate (DMC)	Carbonic acid dimethyl ester	230	233
616-47-7	Methyl imidazole, 1-		270	274
623-53-0	Ethyl methyl carbonate (EMC)	Carbonic acid ethyl methyl ester	230	233
624-48-6	Dimethyl maleate		220	224
624-49-7	Dimethyl fumarate		220	224
624-83-9	Methyl isocyanate		210	211
628-63-7	Acetic acid pentyl ester	Acetic acid pentyl ester::Amyl ester acetic acid::Pentyl acetate	220	222
628-63-7	Amyl acetate, n-	Acetic acid pentyl ester::Amyl ester acetic acid::Pentyl acetate	220	222
628-63-7	Amyl ester acetic acid	Acetic acid pentyl ester::Amyl ester acetic acid::Pentyl acetate	220	222
628-63-7	Pentyl acetate	Acetic acid pentyl ester::Amyl ester acetic acid::Pentyl acetate	220	222
628-76-2	Dichloropentane		260	261
630-08-0	Carbon monoxide		350	350
696-59-3	2,5-Dimethoxytetrahydrofuran		240	241
696-59-3	2,5-Dimethoxytetrahydrofuran		270	277
755-95-3	Diiodo-1,1,2,2-tetrafluorobutane, 1,4-		260	261
756-79-6	Dimethyl Methyl Phosphonate		460	462
811-97-2	Norflurane	Norflurane	260	261
811-97-2	Tetrafluoroethane, 1,1,1,2-	Norflurane	260	261
814-68-6	Acryloyl Chloride		110	111
818-61-1	Ethylene glycol acrylate		220	223
822-06-0	Hexamethylene diisocyanate		210	211
868-85-9	Dimethyl phosphite		460	462
872-50-4	Methyl 2-pyrrolidone, N-		130	132
920-37-6	Chloro acrylonitrile, 2-		260	264
920-37-6	Chloro acrylonitrile, 2-		430	431

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CHEMICAL INDEX - Chemical Abstract System (CAS) Number - Chemical Names and Synonyms

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CAS Number	Chemical Name	Synonym	Class	Sub-Class
921-03-9	Trichloro acetone, 1,1,3-		390	391
921-03-9	Trichloro acetone, 1,1,3-		260	261
927-68-4	Bromoethyl Acetate, 2-		220	222
927-68-4	Bromoethyl Acetate, 2-		260	261
999-97-3	Hexamethyl disilazane	Hexamethyl disilazane, 1,1,1,3,3,3-	480	480
999-97-3	Hexamethyl disilazane, 1,1,1,3,3,3-	Hexamethyl disilazane, 1,1,1,3,3,3-	480	480
1003-09-4	Brom thiophene, 2-		500	509
1118-46-3	Butyl stannium trichloride	Butyl stannium trichloride	470	470
1118-46-3	Tin chloride, mono-n-butyl	Butyl stannium trichloride	470	470
1310-58-3	Potassium hydroxide		380	380
1310-65-2	Lithium hydroxide		380	380
1310-73-2	Caustic soda	Caustic soda	380	380
1310-73-2	Sodium hydroxide	Caustic soda	380	380
1313-82-2	Disodium sulfide		340	340
1319-77-3	Cresols, mixed isomers	Cresylic acid::Methyl phenols	310	316
1319-77-3	Cresylic acid	Cresylic acid::Methyl phenols	310	316
1319-77-3	Methyl phenols	Cresylic acid::Methyl phenols	310	316
1321-74-0	Divinyl Benzene		290	292
1330-20-7	Xylene, mixed isomers		290	292
1333-82-0	Chromic acid (CrO3)		370	370
1336-21-6	Ammonium hydroxide	Caustic ammonia	380	380
1336-21-6	Caustic ammonia	Caustic ammonia	380	380
1338-23-4	Methyl Ethyl Ketone Peroxide	Methyl Ethyl Ketone Peroxide	300	302
1338-23-4	Methyl Ethyl Ketone Peroxide	Methyl Ethyl Ketone Peroxide	300	300
1341-49-7	Ammonium bifluoride	Ammonium hydrogendifluoride	350	350
1341-49-7	Ammonium bifluoride	Ammonium hydrogendifluoride	340	340
1341-49-7	Ammonium hydrogendifluoride	Ammonium hydrogendifluoride	350	350
1341-49-7	Ammonium hydrogendifluoride	Ammonium hydrogendifluoride	340	340
1461-22-9	Tin chloride, tri-n-butyl		470	470
1493-13-6	Trifluoro methansulfonic acid		500	504
1552-12-1	Cyclo octadiene		290	296
1569-01-3	Propoxypropanol		240	245
1634-04-4	Methoxy 2-methylpropane, 2-	Methoxy 2-methylpropane, 2-	240	241
1634-04-4	Methyl tert-butyl ether	Methoxy 2-methylpropane, 2-	240	241
1658-42-0	Methyl -2-pyridyl acetate		220	222
1675-54-3	Bis (4-(2,3-epoxypropoxy)phenyl)propane	Bis (4-(2,3-epoxypropoxy)phenyl) propane::Isopropylidenediphenol diglycidyl ether, 4,4'-	270	275
1675-54-3	Bis phenol A diglycidyl ether	Bis (4-(2,3-epoxypropoxy)phenyl) propane::Isopropylidenediphenol diglycidyl ether, 4,4'-	270	275
1675-54-3	Isopropylidenediphenol diglycidyl ether, 4,4'-	Bis (4-(2,3-epoxypropoxy)phenyl) propane::Isopropylidenediphenol diglycidyl ether, 4,4'-	270	275
1717-00-6	Refrigerant 141B		260	261
1761-71-3	Methylen Isocyclohexylamine, 4,4-		140	148
1885-14-9	Phenyl chlor formiate		220	221
2062-98-8	Perfluoro 2-propoxy propionyl fluoride		240	241
2062-98-8	Perfluoro 2-propoxy propionyl fluoride		110	111
2062-98-8	Perfluoro 2-propoxy propionyl fluoride		260	261
2068-78-2	Vincristine sulfate		990	991

CAS Number	Chemical Name	Synonym	Class	Sub-Class
2217-15-4	Diisopropyl L-tartrate	L-Tartaric acid diisopropyl ester	220	224
2551-62-4	Sulfur hexafluoride		500	509
2551-62-4	Sulfur hexafluoride		350	350
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	270	274
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	390	391
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	500	509
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	500	500
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	390	390
2634-33-5	Benzisothiazol 1,2-	Benzisothiazol, 1,2-	270	270
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	390	390
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	500	509
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	270	270
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	270	274
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	390	391
2682-20-4	2-Methyl-4-isothiazolin-3-one	2-Methyl-4-isothiazolin-3-one	500	500
2807-30-9	Propyl Cellosolve, n-		240	245
3173-53-3	Cyclo hexyl isocanyte		210	211
3536-96-7	Vinyl magnesium chloride		470	470
3778-73-2	Ifosfamide		990	991
4109-96-0	Dichloro silane		480	480
4553-62-2	Methyl 1,5-pentantedinitrile, 2-		430	431
4635-87-4	Pentene nitrile, 3-		430	431
5216-25-1	Chloro benzotrichloride, 4-		260	263
5329-14-6	Amido sulfonic acid	Amido sulfonic acid::Sulfamidic acid	370	370
5329-14-6	Amido sulfonic acid	Amido sulfonic acid::Sulfamidic acid	500	509
5329-14-6	Sulfamic acid	Amido sulfonic acid::Sulfamidic acid	500	509
5329-14-6	Sulfamic acid	Amido sulfonic acid::Sulfamidic acid	370	370
5329-14-6	Sulfamidic acid	Amido sulfonic acid::Sulfamidic acid	370	370
5329-14-6	Sulfamidic acid	Amido sulfonic acid::Sulfamidic acid	500	509
5394-63-8	Diketene Acetone		390	391
5394-63-8	Diketene Acetone		270	278
5989-27-5	Limonene d-	Methyl 4-isopropenyl-1-cyclohexene, 1-	290	296
5989-27-5	Methyl 4-isopropenyl-1-cyclohexene, 1-	Methyl 4-isopropenyl-1-cyclohexene, 1-	290	296
6092-54-2	Hexyl chloro formate, 2-		220	221
6303-21-5	Hypophosphorus acid	Phosphinic acid	370	370
6303-21-5	Phosphinic acid	Phosphinic acid	370	370
6834-92-0	Sodium silicate		340	340
6881-94-3	Diethylene Glycol Monopropyl Ether		240	245
7087-68-5	Diisopropylethylamine (DIPEA)		140	141
7439-97-6	Mercury		330	330
7446-09-5	Sulfur dioxide		360	365
7446-09-5	Sulfur dioxide		350	350
7446-11-9	Sulfur trioxide		360	365
7447-41-8	Lithium chloride		340	340
7452-59-7	Octyl chlor formiate		220	221

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APPENDIX
CHEMICAL INDEX - Chemical Abstract System (CAS) Number - Chemical Names and Synonyms

CAS Number	Chemical Name	Synonym	Class	Sub-Class
7452-59-7	Octyl chlor formiate		110	113
7487-94-7	Mercuric II chloride		340	340
7550-45-0	Titan(IV) chloride	Titan(IV) chloride	360	360
7550-45-0	Titanium tetrachloride	Titan(IV) chloride	360	360
7553-56-2	Iodine		330	330
7601-90-3	Perchloric acid		370	370
7631-90-5	Sodium bisulphite		500	507
7632-51-1	Vanadium tetrachloride		360	360
7637-07-2	Boron trifluoride		360	360
7637-07-2	Boron trifluoride		350	350
7647-01-0	Hydrochloric acid		370	370
7647-01-0	Hydrogen chloride		350	350
7647-01-0	Hydrogen chloride		370	370
7647-14-5	Sodium chloride		990	991
7647-18-9	Antimony pentachloride	Pentachloroantimony	360	360
7647-18-9	Pentachloroantimony	Pentachloroantimony	360	360
7664-38-2	Phosphoric acid		370	370
7664-39-3	Hydrofluoric acid		370	370
7664-39-3	Hydrofluoric acid		350	350
7664-39-3	Hydrogen fluoride		370	370
7664-39-3	Hydrogen fluoride		350	350
7664-41-7	Ammonia		350	350
7664-41-7	Ammonia		380	380
7664-93-9	Sulfuric acid		370	370
7681-49-4	Sodium fluoride		340	340
7681-52-9	Sodium hypochlorite		340	340
7681-57-4	Sodium metabisulphite		340	340
7697-37-2	Nitric acid		370	370
7705-08-0	Ferric (III) chloride		340	340
7719-09-7	Thionyl chloride		360	360
7719-12-2	Phosphorus trichloride		360	360
7722-64-7	Potassium permanganate		340	340
7722-84-1	Hydrogen peroxide		300	301
7726-95-6	Bromine		330	330
7758-94-3	Ferric (II) chloride		340	340
7782-41-4	Fluorine		350	350
7782-50-5	Chlorine		350	350
7782-50-5	Chlorine		330	330
7783-06-4	Hydrogen sulfide		500	502
7783-06-4	Hydrogen sulfide		350	350
7783-07-5	Hydrogen selenide		350	350
7783-54-2	Nitrogen trifluoride		350	350
7783-82-6	Tungsten hexafluoride		350	350
7784-34-1	Arsenic (III) chloride	Arsenic trichloride	340	340
7784-34-1	Arsenic trichloride	Arsenic trichloride	340	340

CAS Number	Chemical Name	Synonym	Class	Sub-Class
7784-42-1	Arsine		350	350
7789-00-6	Potassium chromate		340	340
7789-21-1	Fluorosulfonic acid		370	370
7790-91-2	Chlorine trifluoride		350	350
7790-94-5	Chlorsulfonic acid		500	504
7790-94-5	Chlorsulfonic acid		370	370
7803-51-2	Phosphine		350	350
7803-62-5	Silane		480	480
8001-58-9	Creosote		310	316
8002-05-9	Crude oil	Mineral oil::Crude oil, California	290	294
8002-05-9	Crude oil	Mineral oil::Crude oil, California	290	291
8002-05-9	Crude oil, California	Mineral oil::Crude oil, California	290	291
8002-05-9	Crude oil, California	Mineral oil::Crude oil, California	290	294
8006-64-2	Turpentine		290	294
8006-64-2	Turpentine		290	296
8007-56-5	Aqua regia	Aqua regia	370	370
8007-56-5	Nitrohydrochloric Acid	Aqua regia	370	370
8008-20-6	Kerosene		290	291
8012-95-1	Mineral oil		290	291
8014-95-7	Oleum	Sulfuric acid fuming	370	370
8014-95-7	Sulfuric acid fuming	Sulfuric acid fuming	370	370
8030-30-6	VM & P Naphtha		290	291
8032-32-4	Naphtha		290	292
8052-41-3	Low boiling point naphtha - unspecified	Low boiling point naphtha - unspecified	290	291
8052-41-3	Stoddard solvent	Low boiling point naphtha - unspecified	290	291
9016-87-9	Polymethylene polyphenyle isocyanate (p-MDI)		210	212
10024-97-2	Nitrous oxide		350	350
10025-67-9	Disulphur dichloride	Disulphur dichloride	500	502
10025-67-9	Sulfur monochloride	Disulphur dichloride	500	502
10025-78-2	Trichloro silane		480	480
10025-87-3	Phosphorus oxychloride		360	360
10026-04-7	Silicon tetrachloride		480	480
10026-04-7	Silicon tetrachloride		360	360
10034-85-2	Hydriodic acid		370	370
10035-10-6	Bromine hydrogen	Bromine hydrogen	370	370
10035-10-6	Bromine hydrogen	Bromine hydrogen	350	350
10035-10-6	Hydrobromic acid		370	370
10035-10-6	Hydrogen bromide	Bromine hydrogen (gaseous)	350	350
10035-10-6	Hydrogen bromide	Bromine hydrogen (gaseous)	370	370
10102-43-9	Nitric oxide	Stickoxid	350	350
10102-43-9	Stickoxid	Stickoxid	350	350
10102-44-0	Nitrogen dioxide		350	350
10112-91-1	Calomel	Calomel	340	340
10112-91-1	Mercuric I chloride	Calomel	340	340
10217-52-4	Hydrazine hydrate		280	280

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APPENDIX
CHEMICAL INDEX - Chemical Abstract System (CAS) Number - Chemical Names and Synonyms

CAS Number	Chemical Name	Synonym	Class	Sub-Class
10294-34-5	Boron trichloride		350	350
10294-34-5	Boron trichloride		360	360
10544-72-6	Nitrogen tetroxide		350	350
10545-99-0	Chlorine sulfide	Sulphur dichloride	500	502
10545-99-0	Sulphur dichloride	Sulphur dichloride	500	502
11097-69-1	PCB 1254		260	263
12125-01-8	Ammonium fluoride		340	340
12125-02-9	Ammonium chloride		340	340
13284-42-9	Pentene nitrile, 2-		430	431
13360-57-1	Diamino sulfo chloride		260	261
13463-39-3	Nickel carbonyl	Tetracarbonylnickel	470	470
13463-39-3	Tetracarbonylnickel	Tetracarbonylnickel	470	470
13831-31-7	Acetoxyacetyl Chloride		110	111
15520-10-2	Dytek® A		140	148
15663-27-1	Cisplatin		990	991
16752-77-5	Methomyl		230	233
16872-11-0	Fluoroboric acid		370	370
16961-83-4	Fluorosilicic acid		370	370
19287-45-7	Diborane		350	350
21324-40-3	Lithium Hexafluorophosphate (sat.)		340	340
24991-55-7	Polyethylene glycol dimethyl ether		240	245
25136-40-9	Doxorubicin HCl		990	991
25340-17-4	Diethyl benzene		290	292
25899-50-7	Pentene nitrile, cis-2-		430	431
26471-62-5	Toluene diisocyanate, 1,3-		210	212
29911-27-1	Dipropylene Glycol Monopropyl Ether		240	245
29911-28-2	Butyl Dipropasol Solvent		240	245
29921-57-1	Isopropyl bromoacetate		110	110
29921-57-1	Isopropyl bromoacetate		260	260
29921-57-1	Isopropyl bromoacetate		220	222
30894-74-7	Dichloro -6-isopropyl-S-triazine, 2,4-		270	274
31218-83-4	Safrotin		460	462
33069-62-4	Paclitaxel (Hospira)		990	991
33419-42-0	Etoposide (Toposar®, Teva)		990	991
41575-94-4	Carboplatin		990	991
50782-69-9	VX Nerve Agent, FINABEL 0.7.C		460	462
50782-69-9	VX Nerve Agent, MIL-STD-282		460	462
50815-00-4	JP-4 Jet Fuel		290	291
52583-42-3	Nitric acid, red fuming		370	370
63121-00-6	Oxaliplatin		990	991
64475-85-0	Mineral spirit		290	291
68334-30-5	Diesel fuel		290	291
68476-30-2	Carburant n° 2	Carburant n° 2	290	291
68476-30-2	Fuel-oil no 2	Carburant n° 2	290	291
68956-56-9	Citrus Terpenes Mixture		140	148
71486-22-1	Vinorelbine		990	991
82410-32-0	Ganciclovir		990	991
83016-70-0	Urethane Catalyst Alkanol		240	245
86290-81-5	Gasoline, unleaded		290	291
94114-58-6	JP-8 Jet Fuel		290	291
94239-04-0	Pyridene, 2-fluoro-6-(trifluoromethyl)		270	271
95058-81-4	Gemcitabine		990	991
97697-37-4	Nitric/Hydrofluoric Pickling Solution		370	370
100286-90-6	Irinotecan		990	991
308066-70-8	Gasoline, unleaded E10 (87 Octane)		290	291
mix	Black Liquor		590	590
mix	Chemguard S-764P14A	Chemguard S-764P14A	590	590
mix	Chemidize 727 ND		590	590
mix	Dahlgren Decon solution	Dahlgren Decon solution	590	590
mix	Diesel Fuel Grade D-2		290	290
mix	Diesel automotive test fuel		290	291
mix	Dowtherm Heat Transfer Fluid	Dowtherm Heat Transfer Fluid	590	590
mix	DuPont Activator 193S		590	590
mix	DuPont Activator 4505S		590	590
mix	DuPont Activator 4507S		590	590
mix	Gasoline, leaded		290	291
mix	Green Liquor		590	590
mix	PCB		260	263
mix	PCB in transformer oil		260	263
mix	Skydrol 4D		590	590
mix	Skydrol 5	Skydrol 5	590	590
mix	Skydrol PE-5	Skydrol PE-5	590	590
mix	Spectracide® (50% Malathion, 44% Aromatic Solvent)	Spectracide® (50% Malathion, 44% Aromatic Solvent)	590	590
mix	White Liquor		590	590
mix	White spirit		290	291
mix	m-Cresol 55%, p-Cresol 30%, Phenol 15%		310	316
mix	t-Sodium-amylate / t-amyl alcohol		590	590

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