

Tychem® F

Model CHA5



Chemical Name	Physical State	CAS	BT Act mins	BT 0.1 mins	BT 1.0 mins	EN	S SPR $\mu$ g/ c m <sup>3</sup> /min	MDPR $\mu$ g/ c m <sup>3</sup> /min	Cum 480 $\mu$ g/c m <sup>3</sup>	Time 150 mins
Acetaldehyde	Liquid	75-07-0	imm	imm	13*	1	2	0.06		
Acetic acid (>95%)	Liquid	64-19-7	>480	>480	>480	6	<0.08	0.080	<38.4	>480
Acetic acid 2 ethoxy ethyl ester	Liquid	111-15-9	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Acetic acid 2 methoxy ethyl ester	Liquid	110-49-6	>480	>480	>480	6	<0.05	0.05	<24	>480
Acetic acid ethyl ester	Liquid	141-78-6	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Acetic acid pentyl ester	Liquid	628-63-7	12*	136*	>480	6	0.007	0.001		
Acetic anhydride	Liquid	108-24-7	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Acetic chloride	Liquid	75-36-5	155	>480	>480	6	0.0014	0.0001		
Acetone	Liquid	67-64-1	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Acetone cyanohydrin	Liquid	75-86-5	>480	>480	>480	6	<0.05	0.05	<24	>480
Acetonitrile	Liquid	75-05-8	>480	>480	>480	6	<0.1	0.1	<48	>480

Acetyl chloride	Liquid	75-36-5	155	>480	>480	6	0.0014	0.0001		
Acroleic acid	Liquid	79-10-7	84*	>480	>480	6	0.002	0.001		
Acrolein	Liquid	107-02-8	4*	48*	>480	6	0.41	0.001		
Acryl amide (50%)	Liquid	79-06-1	>480	>480	>480	6	<0.1	0.1	<48	>480
Acrylic acid	Liquid	79-10-7	84*	>480	>480	6	0.002	0.001		
Acrylic amide (50%)	Liquid	79-06-1	>480	>480	>480	6	<0.1	0.1	<48	>480
Acrylonitrile	Liquid	107-13-1	4	8	>480	6	0.57	0.01		
Adipic acid dinitrile	Liquid	111-69-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Adipic acid nitrile	Liquid	111-69-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Adiponitrile	Liquid	111-69-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Adipyl dinitrile	Liquid	111-69-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Allyl alcohol	Liquid	107-18-6	imm	>480	>480	6	0.04	0.001		
Allyl chloride (GPR grade)	Liquid	107-05-1	nm	nm	>480	6	<0.05	0.05	<24	>480
Amino benzene	Liquid	62-53-3	>480	>480	>480	6	<0.03	0.03	<14.4	>480
Amino diphenyl, 4- (24%)	Liquid	92-67-1	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Amino ethanol, 2-	Liquid	141-43-5	>480	>480	>480	6	<0.05	0.05	<24	>480
Amino propane, 2-	Liquid	75-31-0	>480	>480	>480	6	<0.05	0.05	<24	>480
Ammonia (gaseous)	Vapor	7664-41-7	55	79	>480	6	0.76	0.001		
Ammonium aqueous (32%)	Liquid	1336-21-6	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Ammonium bifluoride (sat)	Liquid	1341-49-7	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Ammonium hydrogendifluoride (sat)	Liquid	1341-49-7	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Ammonium hydroxide (32%)	Liquid	1336-21-6	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Amyl acetate, n-	Liquid	628-63-7	12*	136*	>480	6	0.007	0.001		
Amyl alcohol	Liquid	71-41-0	>480	>480	>480	6	<0.1	0.1	<48	>480
Amyl ester acetic acid	Liquid	628-63-7	12*	136*	>480	6	0.007	0.001		
Anilin, 4-Trifluoromethoxy-	Liquid	461-82-5	>480	>480	>480	6	<0.05	0.05	<24	>480
Aniline	Liquid	62-53-3	>480	>480	>480	6	<0.03	0.03	<14.4	>480
Anthracene (sat in Toluene)	Liquid	120-12-7	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Anthracin (sat in Toluene)	Liquid	120-12-7	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Antimony pentachloride	Liquid	7647-18-9	15	15	15	1	>10	0.1		
Arsenic (III) chloride	Liquid	7784-34-1	22*	32*	59*	2	334	0.01		
Arsenic trichloride	Liquid	7784-34-1	22*	32*	59*	2	334	0.01		

Azolidine	Liquid	123-75-1	40*	45*	145*	4	4.7	0.05		
Benzenamine	Liquid	62-53-3	>480	>480	>480	6	<0.03	0.03	<14.4	>480
Benzene	Liquid	71-43-2	>480	>480	>480	6	<0.05	0.05	<24	>480
Benzene carbonyl chloride	Liquid	98-88-4	>480	>480	>480	6	<0.08	0.08	<38.4	>480
Benzene sulfone chloride	Liquid	98-09-9	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Benzene sulfonyl chloride	Liquid	98-09-9	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Benzo nitrile	Liquid	100-47-0	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Benzol	Liquid	71-43-2	>480	>480	>480	6	<0.05	0.05	<24	>480
Benzoyl chloride	Liquid	98-88-4	>480	>480	>480	6	<0.08	0.08	<38.4	>480
Benzyl alcohol	Liquid	100-51-6	>480	>480	>480	6	<0.04	0.04	<19.2	>480
Benzyl chloride	Liquid	100-44-7	>480	>480	>480	6	<0.05	0.05	<24	>480
Benzyl cyanide	Liquid	140-29-4	>390	>390	>390	5	<0.01	0.01	<4.8	>480
Benzyl methylamine, N-	Liquid	103-67-3	>480	>480	>480	6	>0.02	0.02	<9.6	>480
Benzyl nitrile	Liquid	140-29-4	>390	>390	>390	5	<0.01	0.01	<4.8	>480
Bis (4-(2,3-epoxypropoxy)phenyl) propane	Liquid	1675-54-3	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Bis phenol A diglycidyl ether	Liquid	1675-54-3	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Boron trifluoride dimethyletherate	Liquid	353-42-4	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Bromine	Liquid	7726-95-6	imm	imm	nm		105	0.001		
Bromo 4-fluorobenzene, 1-	Liquid	460-00-4	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Bromo fluorobenzene, 4-	Liquid	460-00-4	>480	>480	>480	6	<0.02	0.02	<9.6	>480
But-3-en-2-one	Liquid	78-94-4	nm	nm	>480	6	<0.05	0.05	<24	>480
Butadiene, 1,3-	Vapor	106-99-0	4*	>480	>480	6	0.005	0.001		
Butan-1-ol	Liquid	71-36-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Butane dinitrile	Liquid	111-69-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Butanol, 1-	Liquid	71-36-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Butanol, n-	Liquid	71-36-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Butanol, tert-	Liquid	75-65-0	10*	37*	>480	6	0.26	0.02		
Butanone	Liquid	78-93-3	imm	40*	>480	6	0.36	0.001		
Butanone oxime, 2-	Liquid	96-29-7	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Butoxy ethanol, 2-	Liquid	111-76-2	>480	>480	>480	6	<0.05	0.05	<24	>480
Butyl acetate, n-	Liquid	123-86-4	>480	>480	>480	6	<0.02	0.02	<9.6	>480

Butyl alcohol, n-	Liquid	71-36-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Butyl ether, n-	Liquid	142-96-1	4*	192*	>480	6	0.13	0.001		
Butyl stannium trichloride	Liquid	1118-46-3	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Calomel (sat)	Liquid	10112-91-1	>480	>480	>480	6	<0.1	0.1	<48	>480
Carbon disulfide	Liquid	75-15-0	32*	>480	>480	6	0.05	0.001		
Carbon tetrachloride	Liquid	56-23-5	4*	4*	>480	6	0.57	0.001		
Carmustine (3.3 mg/ml, 10 % Ethanol)	Liquid	154-93-8	>480	>480	>480	6	<0.001	0.001	0.1	>480
Caustic ammonia (32%)	Liquid	1336-21-6	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Caustic soda (50%)	Liquid	1310-73-2	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Chlor allylene (GPR grade)	Liquid	107-05-1	nm	nm	>480	6	<0.05	0.05	<24	>480
Chlor trinitromethan	Liquid	76-06-2	>480	>480	>480	6	<0.05	0.05	<24	>480
Chlorine	Vapor	7782-50-5	>480	>480	>480	6	<0.005	0.005	<0.6	>480
Chloro 1,2-propylene oxide, 3-	Liquid	106-89-8	204	372	>480	6	0.51	0.001		
Chloro 1,3-butadiene, 2- (50% in Butanol)	Liquid	126-99-8	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Chloro 1-methylbenzene, 2-	Liquid	95-49-8	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Chloro 1-propene, 3- (GPR grade)	Liquid	107-05-1	nm	nm	>480	6	<0.05	0.05	<24	>480
Chloro 2,3-epoxy propane, 1-	Liquid	106-89-8	204	372	>480	6	0.51	0.001		
Chloro 2-nitrobenzene, 1- (35-40 °C)	Liquid	88-73-3	>480	>480	>480	6	<0.1	0.1	<48	>480
Chloro 2-propene, 1- (GPR grade)	Liquid	107-05-1	nm	nm	>480	6	<0.05	0.05	<24	>480
Chloro acetic acid (68%)	Liquid	79-11-8	>480	>480	>480	6	<0.1	0.1	<48	>480
Chloro acetone (95%)	Liquid	78-95-5	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Chloro acrylonitrile, 2-	Liquid	920-37-6	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Chloro benzene	Liquid	108-90-7	>480	>480	>480	6	<0.05	0.05	<24	>480
Chloro buta-1,3-diene, 2- (50% in Butanol)	Liquid	126-99-8	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Chloro ethanol, 2-	Liquid	107-07-3	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Chloro 2-propene, 1-	Liquid	107-05-1	nm	nm	>480	6	<0.05	0.05	<24	>480
Chloro acetic acid (68%)	Liquid	79-11-8	>480	>480	>480	6	<0.1	0.1	<48	>480

Chloro acetone (95%)	Liquid	78-95-5	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Chloro acrylonitrile, 2-	Liquid	920-37-6	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Chloro benzene	Liquid	108-90-7	>480	>480	>480	6	<0.05	0.05	<24	>480
Chloro buta-1,3-diene, 2- (50% in Butanol)	Liquid	126-99-8	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Chloro ethanol, 2-	Liquid	107-07-3	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Chloro ethene	Vapor	75-01-4	imm	>480	>480	6	0.02	0.001	<9.6	>480
Chloro form	Liquid	67-66-3	4*	8	8		10.6	0.001		
Chloro methyl methyl ether	Liquid	107-30-2	imm*	8*	>480	6	0.75	0.001		
Chloro prene (50% in Butanol)	Liquid	126-99-8	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Chloro prene, 3-	Liquid	107-05-1	nm	nm	>480	6	<0.05	0.05	<24	>480
Chloro propan-2-one, 1- (95%)	Liquid	78-95-5	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Chloro toluene, alpha-	Liquid	100-44-7	>480	>480	>480	6	<0.05	0.05	<24	>480
Chloro toluene, o-	Liquid	95-49-8	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Chlorsulfonic acid	Liquid	7790-94-5	423	>480	>480	6	0.0003	0.0001		
Citric acid (sat)	Liquid	77-92-9	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Creosote	Liquid	8001-58-9	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Cresol o-	Liquid	95-48-7	124*	180	205	4	2.7	0.001		
Cumene	Liquid	98-82-8	>480	>480	>480	6	<0.05	0.05	<24	>480
Cyanobenzene	Liquid	100-47-0	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Cyanoethylene	Liquid	107-13-1	4	8	>480	6	0.57	0.01		
Cyanomethane	Liquid	75-05-8	>480	>480	>480	6	<0.1	0.1	<48	>480
Cyanopropan-2-ol, 2-	Liquid	75-86-5	>480	>480	>480	6	<0.05	0.05	<24	>480
Cyclohexane	Liquid	110-82-7	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Cyclohexanone	Liquid	108-94-1	>480	>480	>480	6	<0.05	0.05	<24	>480
Diamine	Liquid	302-01-2	269	283	352	5	2.3	0.001		
Diaminoethane, 1,2-	Liquid	107-15-3	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Dibromoethane, 1,2-	Liquid	106-93-4	84*	144*	>480	6	0.52	0.001		
Dibutyl 1,2-benzenedicarboxylate	Liquid	84-74-2	nm	nm	>480	6	<0.05	0.05	<24	>480
Dibutylphthalate	Liquid	84-74-2	nm	nm	>480	6	<0.05	0.05	<24	>480
Dibutylsebacate	Liquid	109-43-3	nm	nm	>480	6	<1	1		

Dichlorethane, 1,2.-	Liquid	107-06-2	65*	93	109	3	<3	0.04	898	182
Dichloro-2-propanone, 1,3- (molten at 45 °C)	Liquid	534-07-6	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Dichloroacetone (molten at 45 °C)	Liquid	534-07-6	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Dichloroacetyl chloride	Liquid	79-36-7	160	160	180	4	78.41	0.01		
Dichloroethyl ether	Liquid	111-44-4	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Dichloroethylene, 1,1-	Liquid	75-35-4	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Dichloromethane	Liquid	75-09-2	imm	imm	imm		23.7	0.03		
Dichloropropene, 2,3-	Liquid	78-88-6	4*	4*	54*	2	2.4	0.001		
Dicyanobutane, 1,4-	Liquid	111-69-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Diesel fuel	Liquid	68334-30- 5	8*	>480	>480	6	0.002	0.001		
Diethyl amine	Liquid	109-89-7	>480	>480	>480	6	<0.05	0.05	<24	>480
Diethyl ethanamine, N,N-	Liquid	121-44-8	>480	>480	>480	6	0.05	0.05	<24	>480
Diethyl ether	Liquid	60-29-7	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Diethyl sulfate	Liquid	64-67-5	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Diethylene glycol monobutyl ether	Liquid	112-34-5	>480	>480	>480	6	<0.05	0.05	<24	>480
Diethylene triamine	Liquid	111-40-0	5	>480	>480	6	<0.01	0.005	<4.8	>480
Dimethyl acetamide, N,N-	Liquid	127-19-5	>480	>480	>480	6	<0.05	0.05	<24	>480
Dimethyl amine	Vapor	124-40-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Dimethyl aniline, N,N-	Liquid	121-69-7	>480	>480	>480	6	<0.1	0.1	<48	>480
Dimethyl dichlorosilane	Liquid	75-78-5	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Dimethyl formamide, N,N-	Liquid	68-12-2	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Dimethyl ketal	Liquid	67-64-1	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Dimethyl ketone	Liquid	67-64-1	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Dimethyl nitrosamine	Liquid	62-75-9	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Dimethyl phenylamine, N,N-	Liquid	121-69-7	>480	>480	>480	6	<0.1	0.1	<48	>480
Dimethyl sulfate	Liquid	77-78-1	>480	>480	>480	6	<0.09	0.09	<43.2	>480
Dimethyl sulfide	Liquid	75-18-3	83*	271	452	5	1.21	0.02		
Dimethyl sulfoxide	Liquid	67-68-5	20*	28*	114	3	1.9	0.001		
Dioxane, 1,4-	Liquid	123-91-1	>480	>480	>480	6	<0.05	0.05	<24	>480
Epichlorohydrin	Liquid	106-89-8	204	372	>480	6	0.51	0.001		

Epoxy ethane (gaseous)	Vapor	75-21-8	106	126	>480	6	<0.35	0.05	76	>480
Epoxy propane, 1,2-	Liquid	75-56-9	4	14	nm		0.96	0.001		
Ethane 1,2-diol	Liquid	107-21-1	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Ethane dioic acid (sat)	Liquid	144-62-7	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Ethane nitrile	Liquid	75-05-8	>480	>480	>480	6	<0.1	0.1	<48	>480
Ethane thiol	Liquid	75-08-1	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Ethane trichloride	Liquid	79-00-5	120*	164*	202*	4	9.1	0.01		
Ethanol	Liquid	64-17-5	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Ethanol amine	Liquid	141-43-5	>480	>480	>480	6	<0.05	0.05	<24	>480
Ethanoyl chloride	Liquid	75-36-5	155	>480	>480	6	0.0014	0.0001		
Ethoxy ethanol, 2-	Liquid	110-80-5	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Ethoxy ethylacetat	Liquid	111-15-9	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Ethyl acetate	Liquid	141-78-6	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Ethyl alcohol	Liquid	64-17-5	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Ethyl benzene	Liquid	100-41-4	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Ethyl ethanamine, N-	Liquid	109-89-7	>480	>480	>480	6	<0.05	0.05	<24	>480
Ethyl ether	Liquid	60-29-7	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Ethyl mercaptan	Liquid	75-08-1	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Ethyl nitrile	Liquid	75-05-8	>480	>480	>480	6	<0.1	0.1	<48	>480
Ethylene carboxylic acid	Liquid	79-10-7	84*	>480	>480	6	0.002	0.001		
Ethylene chlorohydrin	Liquid	107-07-3	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Ethylene diamine	Liquid	107-15-3	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Ethylene dibromide	Liquid	106-93-4	84*	144*	>480	6	0.52	0.001		
Ethylene dichloride	Liquid	107-06-2	65*	93	109	3	<3	0.04	898	182
Ethylene glycol	Liquid	107-21-1	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Ethylene glycol mono ethyl ether acetate	Liquid	111-15-9	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Ethylene glycol monobutyl ether	Liquid	111-76-2	>480	>480	>480	6	<0.05	0.05	<24	>480
Ethylene glycol monoethyl ether	Liquid	110-80-5	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Ethylene glycol monomethyl ether	Liquid	109-86-4	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Ethylene glycol monomethyl	Liquid	110-49-6	>480	>480	>480	6	<0.005	0.005	<2.4	>480

ether acetate										
Ethylene oxide (gaseous)	Vapor	75-21-8	106	126	>480	6	<0.35	0.05	76	>480
Ethylene tetrachloride	Liquid	127-18-4	13	>480	>480	6		0.001		
Ethylene trichloride	Liquid	79-01-6	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Ethylglycol acetate	Liquid	111-15-9	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Fluorobenzene	Liquid	462-06-6	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Fluorosilicic acid	Liquid	16961-83-4	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Fluorosulfonic acid	Liquid	7789-21-1	87	194	>480	6	nm	0.02	29	>480
Formaldehyde (37%)	Liquid	50-00-0	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Formalin (37%)	Liquid	50-00-0	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Formic acid (>95%)	Liquid	64-18-6	172	260	>480	6	0.24	0.001		
Formic acid (50%)	Liquid	64-18-6	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Furaldehyde, 2-	Liquid	98-01-1	424*	>480	>480	6	0.01	0.001	<4.8	>480
Furfural	Liquid	98-01-1	424*	>480	>480	6	0.01	0.001	<4.8	>480
Gasoline, leaded	Liquid	N/A	imm	4*	>480	6	0.32	0.001		
Gasoline, unleaded	Liquid	86290-81-5	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Glutaral (50%)	Liquid	111-30-8	150	170	200	4	1.861	0.01		
Glutaraldehyde (50%)	Liquid	111-30-8	150	170	200	4	1.861	0.01		
Glycol alcohol	Liquid	107-21-1	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Glycol chlorohydrin	Liquid	107-07-3	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Hexamethylene diamine (molten at 45 °C)	Liquid	124-09-4	423	>480	>480	6	0.003	0.0001	<1.44	>480
Hexamethylene diisocyanate	Liquid	822-06-0	>480	>480	>480	6	<0.07	0.07	<33.6	>480
Hexane dinitrile	Liquid	111-69-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Hexane n-	Liquid	110-54-3	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Hexanone	Liquid	108-94-1	>480	>480	>480	6	<0.05	0.05	<24	>480
Hexone	Liquid	108-10-1	>480	>480	>480	6	<0.05	0.05	<24	>480
Hydrazine	Liquid	302-01-2	269	283	352	5	2.3	0.001		
Hydriodic acid (57%)	Liquid	10034-85-2	>480	>480	>480	6	<0.06	0.06	<28.8	>480
Hydrochloric acid (37%)	Liquid	7647-01-0	>480	>480	>480	6	<0.005	0.005	<2.4	>480

Hydrofluoric acid (48%)	Liquid	7664-39-3	>480	>480	>480	6	<0.025	0.025	<12	>480
Hydrofluoric acid (60%)	Liquid	7664-39-3	18	52	373	5	nm	0.005		
Hydrofluoric acid (70%)	Liquid	7664-39-3	22	35	293	5	na	0.005	414	227
Hydrogen bromide (gazeuse)	Vapor	10035-10-6	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Hydrogen chloride (gaseous)	Vapor	7647-01-0	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Hydrogen fluoride (gaseous at 21 °C)	Vapor	7664-39-3	nm	nm	48	2	nm	0.01		
Hydrogen fluoride (liquid at 18 °C)	Liquid	7664-39-3	20*	28*	60*	2	2.2	0.01		
Hydrogen peroxide (50%)	Liquid	7722-84-1	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Hydrogen peroxide (70%)	Liquid	7722-84-1	>480	>480	>480	6	<0.02	0.02	<10	>480
Hydroxy 1,2,3-propanetricarboxylic acid, 2- (sat)	Liquid	77-92-9	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Hydroxy 1-ethanethiol, 2-	Liquid	60-24-2	>480	>480	>480	6	<0.08	0.08	<38.4	>480
Hydroxy 2-methylpropionitrile, 2-	Liquid	75-86-5	>480	>480	>480	6	<0.05	0.05	<24	>480
Hydroxy isobutyronitrile	Liquid	75-86-5	>480	>480	>480	6	<0.05	0.05	<24	>480
Hydroxy propene	Liquid	107-18-6	imm	>480	>480	6	0.04	0.001		
Hydroxy toluene	Liquid	100-51-6	>480	>480	>480	6	<0.04	0.04	<19.2	>480
Hydroxy toluene, o-	Liquid	95-48-7	124*	180	205	4	2.7	0.001		
Hypophosphorus acid (50%)	Liquid	6303-21-5	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Iodomethane	Liquid	74-88-4	254	296	>480	6	nm	0.07	53.6	>480
Isobutyl methyl ketone	Liquid	108-10-1	>480	>480	>480	6	<0.05	0.05	<24	>480
Isophthaloyldichloride (molten at 45 °C)	Liquid	99-63-8	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Isopropanol	Liquid	67-63-0	>480	>480	>480	6	<0.05	0.05	<24	>480
Isopropyl alcohol	Liquid	67-63-0	>480	>480	>480	6	<0.05	0.05	<24	>480
Isopropyl amine	Liquid	75-31-0	>480	>480	>480	6	<0.05	0.05	<24	>480
Isopropyl benzene	Liquid	98-82-8	>480	>480	>480	6	<0.05	0.05	<24	>480
Isopropylidenediphenol diglycidyl ether, 4,4'-	Liquid	1675-54-3	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Kerosene	Liquid	8008-20-6	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Ketone propane	Liquid	67-64-1	>480	>480	>480	6	<0.02	0.02	<9.6	>480

Lewisite (L), FINABEL 0.7.C	Liquid	541-25-3		>260* 8						
Lewisite (L), MIL-STD-282 (100 g/m2)	Liquid	541-25-3		3608						
Limonene d-	Liquid	5989-27-5	>480	>480	>480	6	<0.02	0.02	<9.6	>480
MEK	Liquid	78-93-3	imm	40*	>480	6	0.36	0.001		
Mercapto acetic acid	Liquid	68-11-1	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Mercapto ethanol	Liquid	60-24-2	>480	>480	>480	6	<0.08	0.08	<38.4	>480
Mercuric I chloride (sat)	Liquid	10112-91- 1	>480	>480	>480	6	<0.1	0.1	<48	>480
Mercury	Liquid	7439-97-6	>480	>480	>480	6	<0.04	0.04	<19.2	>480
Methacrylic acid	Liquid	79-41-4	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Methanesulfonyl chloride	Liquid	124-63-0	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Methanesulphonic acid (70%)	Liquid	75-75-2	>480	>480	>480	6	<0.05	0.05	<24	>480
Methanethiol	Vapor	74-93-1	>480	>480	>480	6	<0.05	0.05	<24	>480
Methanol	Liquid	67-56-1	56	117	>480	6	0.14	0.02		
Methoxy 2-methylpropane, 2-	Liquid	1634-04-4	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Methoxy chloromethane	Liquid	107-30-2	imm*	8*	>480	6	0.75	0.001		
Methoxy ethanol, 2	Liquid	109-86-4	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Methoxy ethylacetate, 2-	Liquid	110-49-6	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Methyl 1,5-pentanedinitrile, 2-	Liquid	4553-62-2	>480	>480	>480	6	<0.1	0.1	<48	>480
Methyl 2-methyl-2-propenoate	Liquid	80-62-6	4*	8*	180*	4	1.4	0.001		
Methyl 2-pyrrolidon, N-	Liquid	872-50-4	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Methyl 4-isopropenyl-1-cyclohexene, 1-	Liquid	5989-27-5	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Methyl acetyl	Liquid	67-64-1	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Methyl acrylate	Liquid	96-33-3	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Methyl amine	Vapor	74-89-5	>480	>480	>480	6	<0.05	0.05	<24	>480
Methyl aniline, o-	Liquid	95-53-4	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Methyl benzol	Liquid	108-88-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Methyl benzylamine, N-	Liquid	103-67-3	>480	>480	>480	6	>0.02	0.02	<9.6	>480
Methyl chloroformate	Liquid	79-22-1	99*	204*	>480	6	0.17	0.05	<24	>480

Methyl cyanide	Liquid	75-05-8	>480	>480	>480	6	<0.1	0.1	<48	>480
Methyl ethyl ketone	Liquid	78-93-3	imm	40*	>480	6	0.36	0.001		
Methyl ethyl ketoxime	Liquid	96-29-7	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Methyl ethylamine, 1-	Liquid	75-31-0	>480	>480	>480	6	<0.05	0.05	<24	>480
Methyl formamide, N-	Liquid	123-39-7	>480	>480	>480	6	<0.05	0.05	<24	>480
Methyl hydrazine	Liquid	60-34-4	83*	183*	280*	5	0.98	0.01		
Methyl iodide	Liquid	74-88-4	254	296	>480	6	nm	0.07	53.6	>480
Methyl isocyanate	Liquid	624-83-9	imm	4*	>480	6	0.42	0.001		
Methyl ketone	Liquid	67-64-1	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Methyl mercaptan	Vapor	74-93-1	>480	>480	>480	6	<0.05	0.05	<24	>480
Methyl methacrylate	Liquid	80-62-6	4*	8*	180*	4	1.4	0.001		
Methyl N-nitrosomethanamine, N-	Liquid	62-75-9	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Methyl pentan-2-one, 4-	Liquid	108-10-1	>480	>480	>480	6	<0.05	0.05	<24	>480
Methyl propan-2-ol, 2-	Liquid	75-65-0	10*	37*	>480	6	0.26	0.02		
Methyl propenoic acid, 2-	Liquid	79-41-4	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Methyl pyridine, 2-	Liquid	109-06-8	>480	>480	>480	6	<0.024	0.024	<11.5	>480
Methyl pyridine, 3-	Liquid	108-99-6	>480	>480	>480	6	<0.024	0.024	<11.5	>480
Methyl tert-butyl ether	Liquid	1634-04-4	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Methyl trichlorosilane	Liquid	75-79-6	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Methyl vinyl ketone	Liquid	78-94-4	nm	nm	>480	6	<0.05	0.05	<24	>480
Methylene bromide	Liquid	74-95-3	imm	imm	20	1	111	0.05		
Methylene chloride	Liquid	75-09-2	imm	imm	imm		23.7	0.03		
Naphthalene	Solid	91-20-3	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Naphthalene (25% in Diethylene glycol dimethylether)	Liquid	91-20-3	>480	>480	>480	6	<0.007	0.007	<3.36	>480
Neoprene (50% in Butanol)	Liquid	126-99-8	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Nicotine	Liquid	54-11-5	>480	>480	>480	6	<0.1	0.1	<48	>480
Nitric acid (70%)	Liquid	7697-37-2	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Nitric acid, red fuming (90%)	Liquid	52583-42-3	15	15	15	1	>50	0.1		
Nitro benzene	Liquid	98-95-3	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Nitro chlorobenzene, o-	Liquid	88-73-3	>480	>480	>480	6	<0.1	0.1	<48	>480

(35-40 °C)										
Nitro methane	Liquid	75-52-5	157	233	nm		0.97	0.001		
Nitro propane, 2-	Liquid	79-46-9	>480	>480	>480	6	<0.05	0.05	<24	>480
Nitrogen dioxide	Vapor	10102-44-0	<15	<15	nm		>0.2	0.01		
Oleum (40%)	Liquid	8014-95-7	130*	455*	>480	6	0.32	0.0001		
Oleum (65%)	Liquid	8014-95-7	180	248	370	5	nm	0.04	398	428
Oxalic acid (sat)	Liquid	144-62-7	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Paclitaxel (6 mg/ml, 10 % Acetonitril)	Liquid	33069-62-4	5*	>480	>480	6	<0.1	0.001	8	>480
PCB 1254 (50% in Trichlorbenzen)	Liquid	11097-69-1	324*	>480	>480	6	0.032	0.01		
Pentachloroantimony	Liquid	7647-18-9	15	15	15	1	>10	0.1		
Pentanedial, 1,5- (50%)	Liquid	111-30-8	150	170	200	4	1.861	0.01		
Pentanol, 1-	Liquid	71-41-0	>480	>480	>480	6	<0.1	0.1	<48	>480
Pentene nitrile, 2-	Liquid	13284-42-9	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Pentyl acetate	Liquid	628-63-7	12*	136*	>480	6	0.007	0.001		
Phenethylene	Liquid	100-42-5	140*	>480	>480	6	<0.001	0.001	<0.48	>480
Phenol (85%)	Liquid	108-95-2	>480	>480	>480	6	<0.05	0.05	<6	>480
Phenol (molten at 45 °C)	Liquid	108-95-2	22	25	29	1	na	0.05	>355, 120min	56
Phenyl acetonitrile	Liquid	140-29-4	>390	>390	>390	5	<0.01	0.01	<4.8	>480
Phenyl amine	Liquid	62-53-3	>480	>480	>480	6	<0.03	0.03	<14.4	>480
Phenyl chloride	Liquid	108-90-7	>480	>480	>480	6	<0.05	0.05	<24	>480
Phenyl cyanide	Liquid	100-47-0	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Phenyl ethane	Liquid	100-41-4	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Phenyl propane, 2-	Liquid	98-82-8	>480	>480	>480	6	<0.05	0.05	<24	>480
Phenyl trichlorosilane	Liquid	98-13-5	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Phosgene	Vapor	75-44-5	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Phosphine	Vapor	7803-51-2	imm	imm	nm	nm	>0.11	0.003		
Phosphinic acid (50%)	Liquid	6303-21-5	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Phosphoric acid (85%)	Liquid	7664-38-2	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Phosphorus oxychloride	Liquid	10025-87-	nm	>480	>480	6	<0.01	0.01	<4.8	>480

		3								
Phosphorus trichloride	Liquid	7719-12-2	200*	>480	>480	6	0.0055	0.001		
Picoline, 2-	Liquid	109-06-8	>480	>480	>480	6	<0.024	0.024	<11.5	>480
Picoline, 3-	Liquid	108-99-6	>480	>480	>480	6	<0.024	0.024	<11.5	>480
Pimelic ketone	Liquid	108-94-1	>480	>480	>480	6	<0.05	0.05	<24	>480
Polymethylene polyphenyle isocyanate (p-MDI)	Liquid	9016-87-9	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Potassium chromate (sat)	Liquid	7789-00-6	>480	>480	>480	6	<0.1	0.1	<48	>480
Potassium hydroxide (50%)	Liquid	1310-58-3	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Prop-2-en-1-al	Liquid	107-02-8	4*	48*	>480	6	0.41	0.001		
Prop-2-yn-1-ol	Liquid	107-19-7	123	123	127	4	37.9	0.07		
Propan-1-ol	Liquid	71-23-8	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Propan-2-ol	Liquid	67-63-0	>480	>480	>480	6	<0.05	0.05	<24	>480
Propan-2-one	Liquid	67-64-1	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Propanol, 1-	Liquid	71-23-8	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Propanol, n-	Liquid	71-23-8	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Propargyl alcohol	Liquid	107-19-7	123	123	127	4	37.9	0.07		
Propen-1-ol, 2-	Liquid	107-18-6	imm	>480	>480	6	0.04	0.001		
Propenamide (50%)	Liquid	79-06-1	>480	>480	>480	6	<0.1	0.1	<48	>480
Propene acid	Liquid	79-10-7	84*	>480	>480	6	0.002	0.001		
Propenenitrile, 2-	Liquid	107-13-1	4	8	>480	6	0.57	0.01		
Propenoic acid nitrile	Liquid	107-13-1	4	8	>480	6	0.57	0.01		
Propyl alcohol	Liquid	71-23-8	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Propyl amine, n-	Liquid	107-10-8	7	16*	>480	6	0.52	0.05		
Propylene oxide, 1,2-	Liquid	75-56-9	4	14	nm		0.96	0.001		
Pyridene, 2-fluoro-6-(trifluoromethyl)	Liquid	94239-04-0	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Pyridine	Liquid	110-86-1	>480	>480	>480	6	<0.05	0.05	<24	>480
Pyroacetic ether	Liquid	67-64-1	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Pyrrolidine	Liquid	123-75-1	40*	45*	145*	4	4.7	0.05		
Sarin (GB), FINABEL 0.7.C	Liquid	107-44-8		>1400 8						
Sarin (GB), MIL-STD-282 (100 g/m2)	Liquid	107-44-8		>4808						

Silane	Vapor	7803-62-5	>480	>480	>480	6	<0.1	0.1	<48	>480
Silicon tetrachloride	Liquid	10026-04-7	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Sodium cyanide (45%)	Liquid	143-33-9	nm	>480	>480	6	nm	<0.1		
Sodium hydroxide (50%)	Liquid	1310-73-2	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Sodium hypochlorite (15%)	Liquid	7681-52-9	>480	>480	>480	6	<0.03	0.03	<14.4	>480
Soman (GD), FINABEL 0.7.C	Liquid	96-64-0		>14008						
Soman (GD), MIL-STD-282 (100 g/m2)	Liquid	96-64-0		>4808						
Spiritus	Liquid	64-17-5	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Styrene	Liquid	100-42-5	140*	>480	>480	6	<0.001	0.001	<0.48	>480
Sulfur dioxide	Vapor	7446-09-5	24*	24*	24*	1	2.6	0.34		
Sulfur Mustard (HD), FINABEL 0.7.C	Liquid	505-60-2		>14008						
Sulfur Mustard (HD), MIL-STD-282 (100 g/m2)	Liquid	505-60-2		>4808						
Sulfuric acid (>95%)	Liquid	7664-93-9	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Sulfuric acid diethyl ester	Liquid	64-67-5	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Sulfuric acid dimethyl ester	Liquid	77-78-1	>480	>480	>480	6	<0.09	0.09	<43.2	>480
Sulfuric acid fuming (40%)	Liquid	8014-95-7	130*	455*	>480	6	0.32	0.0001		
Sulfuric acid fuming (65%)	Liquid	8014-95-7	180	248	370	5	nm	0.04	398	428
Sulfuryl chloride	Liquid	7791-25-5	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Tabun (GA), FINABEL 0.7.C	Liquid	77-81-6		>14008						
Tabun (GA), MIL-STD-282 (100 g/m2)	Liquid	77-81-6		>4808						
Tetrachloro bisphenol-A, 2,2',6,6'-	Solid	79-95-8	>480	>480	>480	6	<0.1	0.1	<48	>480
Tetrachloro ethane, 1,1,2,2,-	Liquid	79-34-5	>480	>480	>480	6	<0.008	0.008	<3.84	>480
Tetrachloro ethylene, 1,1,2,2,-	Liquid	127-18-4	13	>480	>480	6		0.001		
Tetrachloro methane	Liquid	56-23-5	4*	4*	>480	6	0.57	0.001		
Tetraethylene pentamine	Liquid	112-57-2	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Tetrahydrofuran	Liquid	109-99-9	>480	>480	>480	6	<0.05	0.05	<24	>480
Tetramethyl ammonium	Liquid	75-59-2	>480	>480	>480	6	<0.01	0.01	<4.8	>480

hydroxide (25%)										
Thioglycolic acid	Liquid	68-11-1	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Thionyl chloride	Liquid	7719-09-7	21	21	33	3	nm	0.1	nm	47
Thiotepa (10 mg/ml)	Liquid	52-24-4	imm	>480	>480	6	<0.1	0.001		
Tin chloride, mono-n-butyl	Liquid	1118-46-3	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Tin chloride, tri-n-butyl	Liquid	1461-22-9	nm	nm	>480	6	nm	0.2		
Titan(IV) chloride	Liquid	7550-45-0	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Titanium tetrachloride	Liquid	7550-45-0	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Toluene	Liquid	108-88-3	>480	>480	>480	6	<0.05	0.05	<24	>480
Toluene diisocyanate, 2,4-(80%)	Liquid	584-84-9	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Toluidine, o-	Liquid	95-53-4	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Trichloro acetic acid	Liquid	76-03-9	>480	>480	>480	6	<0.1	0.1	<48	>480
Trichloro acetone, 1,1,3-	Liquid	921-03-9	nm	nm	>480	6	nm	0.05		
Trichloro benzene, 1,2,4-	Liquid	120-82-1	>480	>480	>480	6	<0.001	0.001	<0.48	>480
Trichloro ethane, 1,1,2-	Liquid	79-00-5	120*	164*	202*	4	9.1	0.01		
Trichloro ethanol, 2,2,2-	Liquid	115-20-8	>480	>480	>480	6	<0.008	0.008	<3.84	>480
Trichloro ethylene	Liquid	79-01-6	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Trichloro methane	Liquid	67-66-3	4*	8	8		10.6	0.001		
Trichloro phenylsilane	Liquid	98-13-5	>480	>480	>480	6	<0.0001	0.0001	<0.04	>480
Triethyl amine	Liquid	121-44-8	>480	>480	>480	6	0.05	0.05	<24	>480
Triethylenetetramine (60%)	Liquid	112-24-3	>480	>480	>480	6	<0.005	0.005	<2.4	>480
Trifluoro acetic acid	Liquid	76-05-1	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Trifluoro methansulfonic acid	Liquid	1493-13-6	>480	>480	>480	6	<0.01	0.01	<4.8	>480
Trimethyl chinon (30 °C)	Liquid	935-92-2	nm	nm	>480	6	nm	0.05		
Vinyl benzol	Liquid	100-42-5	140*	>480	>480	6	<0.001	0.001	<0.48	>480
Vinyl carbinol	Liquid	107-18-6	imm	>480	>480	6	0.04	0.001		
Vinyl chloride	Vapor	75-01-4	imm	>480	>480	6	0.02	0.001	<9.6	>480
Vinyl cyanide	Liquid	107-13-1	4	8	>480	6	0.57	0.01		
Vinyl ethylene (gaseous)	Vapor	106-99-0	4*	>480	>480	6	0.005	0.001		
Vinylidene chloride	Liquid	75-35-4	>480	>480	>480	6	<0.02	0.02	<9.6	>480
VX Nerve Agent, FINABEL 0.7.C	Liquid	50782-69-9		>1400 8						
VX Nerve Agent,	Liquid	50782-69-		>4808						

MIL-STD-282 (100 g/m <sup>2</sup> )		9								
White spirit	Liquid	N/A	>480	>480	>480	6	<0.02	0.02	<9.6	>480
Xylene, mixed isomers	Liquid	1330-20-7	>480	>480	>480	6	<0.001	0.001	<4.8	>480

- BT Act (Actual) Breakthrough time at MDPR
- BT 0.1 Normalized breakthrough time at 0.1 µg/cm<sup>2</sup>/min
- BT 1.0 Normalized breakthrough time at 1.0 µg/cm<sup>2</sup>/min
- EN Classification according to EN 14325
- SSPR Steady state permeation rate
- MDPR Minimum detectable permeation rate
- CUM 480 Cumulative permeation mass after 480 mins
- Time 150 Time to reach cumulative permeation mass of 150 µg/cm<sup>2</sup>
- ISO Classification according to ISO 16602
- CAS Chemical abstracts service registry number
- mins Minutes
- > Larger than
- < Smaller than
- imm Immediate (< 4 min)
- nm Not tested
- sat Saturated solution
- N/A Not Applicable
- \* Based on lowest single value
- 8 Actual breakthrough time; normalized breakthrough time is not available

Important Note

The permeation data published have been generated for DuPont by independent accredited testing laboratories according to the test method applicable at that time\*. The data is typically the average of three samples tested.

\* EN369, ASTM F739, EN 374-3 or EN ISO 6529 (method A and B)

Cumulative permeation data have been measured or have been calculated based on steady state permeation rate.

All chemicals have been tested at a concentration of greater than 95% unless otherwise stated. The tests were performed at room temperature and environmental pressure unless otherwise stated.

A different temperature may have significant influence on the breakthrough time.

Permeation typically increases with temperature.

Permeation data are usually measured for single chemicals. The permeation characteristics of mixtures can often deviate considerably from the behaviour of the individual chemicals.

Breakthrough time is not the same as safe wear time. Breakthrough time alone is insufficient to determine how long a garment may be worn once the garment has been contaminated. Safe user wear time may be longer or shorter than the breakthrough time depending on the permeation behaviour of the substance, the toxicity of the substance and the exposure conditions. Breakthrough times are indicative of the barrier performance, but results can vary between the test methods and laboratories.

Please use the permeation data as part of the risk assessment to assist the selection of a protective fabric, garment or accessory suitable for your application. Working conditions, exposure conditions (e.g. temperature, pressure, concentration, physical state), and the toxicity data for the chemical need to be taken into account.

Chemical warfare agents (Lewisite, Sarin, Soman, Mustard, Tabun and VX Nerve Agent) have been tested according to MIL-STD-282 at 22°C or according to FINABEL 0.7 at 37°C.

Permeation data for Tyvek® is applicable to white Tyvek® L1431N only and is not applicable for other Tyvek® styles or colours.

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