



C3184T TN

DuPont™ Tychem® 5000

DuPont™ Tychem® 5000 Coverall. Collar. Attached Dual Layer Gloves, Internal:Multi-layer laminate / External: Neoprene. Attached Socks with Outer Boot Flaps. Double Storm Flap with Hook & Loop Closure. Taped Seams. Tan.

| Name | Description |
|---------------------|---|
| Full Part Number | C3184TTNxx0006yy (xx=size;yy=option code) |
| Fabric or Materials | Tychem® 5000 |
| Design | Coverall w/ Att. Gloves, Att. Socks w/ Outer Boot Flaps |
| Seam | Taped |
| Color | Tan |
| Quantity/Box | 6 per case |
| Sizes | SM, MD, LG, XL, 2X, 3X, 4X |
| Option Codes | 00 |

FEATURES & PRODUCT DETAILS

Tychem® 5000 fabric is composed of a multi-layer film barrier laminated to a durable 2.0 oz/yd² polypropylene substrate. Tychem® 5000 fabric is strong and durable for rigorous activities and rugged situations involving liquid splash and provides barrier to a broad range of chemicals. Typical Applications: chemical handling, petro-chemical, hazardous materials/waste clean-up, fire departments, industrial hazmat teams, utilities, and domestic preparedness. Commonly used in domestic preparedness for situations where the potential to exposure to chemicals exist.

- Tychem® CPF3 HD garments were designed with extensive input from first responders to ensure that HAZMAT, law enforcement, military and hospital personnel get the protection they need from chemical warfare agents (including Sarin, Mustard, and Lewisite) and toxic industrial chemicals (TIC's).
- Taped seams provide strong chemical resistance against heavy liquid splashes. A sewn seam is covered with a strip of compatible chemical-resistant material through heat sealing.
- Mandarin collar designed to fit tightly around hooded PAPR
- Larger zipper pull is easier to grasp for easier donning and doffing
- Storm flap covers zipper which can be secured by the wearer with rugged hook and loop material to prevent intrusion at zipper
- Attached internal gloves composed of five layer laminate film for a broad range of chemical protection
- Neoprene outer gloves deliver high tactility and dexterity to handle tools or weapons
- Integrated socks composed of garment material
- Attached flaps are designed to cover boot tops to help reduce potential for liquid intrusion
- Meets the U.S. industry requirements for blood (ASTM F1670) and viral penetration (ASTM F1671) protecting against several bloodborne pathogen exposure risks.

AVAILABLE OPTIONS

| Option Code | Description | Sizes | Part Number |
|-------------|-------------|----------------------|------------------|
| 00 | Standard | SM,MD,LG,XL,2X,3X,4X | C3184TTNxx000600 |

FINISHED DIMENSIONS

| Size | Sleeve Length | Chest Width | Inseam | Fits Chest | Fits Height | Boot Length | Boot Height | Mens Shoe | Womens Shoe | Inner Glove Size | C C S |
|------|---------------|-------------|--------|-----------------------|----------------|-------------|-------------|-----------|-------------|------------------|-------------|
| SM | 34 1/4 | 22 | 27 1/2 | 30 3/4 - 34 1/4 | 5'0" - 5'7" | 13 1/4 | n/a | n/a | n/a | 11 | 1 |
| MD | 35 1/4 | 24 | 28 | 34 3/4 - 38 1/4 | 5'3" - 5'7" | 13 1/4 | n/a | n/a | n/a | 11 | 1 |
| LG | 36 1/4 | 26 | 29 | 38 3/4 - 42 1/4 | 5'5" - 5'9" | 13 1/4 | n/a | n/a | n/a | 11 | 1 |
| XL | 38 | 28 | 29 1/2 | 42 3/4 - 46 1/4 | 5'8" - 6'2" | 13 1/4 | n/a | n/a | n/a | 11 | 1 |
| 2X | 39 1/4 | 30 | 30 | 46 3/4 - 50 1/4 | 6'0" - 6'4" | 13 1/4 | n/a | n/a | n/a | 11 | 1 |
| 3X | 40 1/2 | 31 3/4 | 31 | 50 1/4 - 53 3/4 | 6'2" - 6'4" | 13 1/4 | n/a | n/a | n/a | 11 | 1 |
| 4X | 41 1/2 | 34 | 32 1/4 | 54 3/4 - 58 1/4 | 6'4" - 6'7" | 13 1/4 | n/a | n/a | n/a | 11 | 1 |


ADDITIONAL EQUIPMENT NEEDED

- Please read, understand and follow the Tychem® User Manual.
- Wear other appropriate PPE such as, but not limited to, respiratory, eye, head, hand, and foot protection based on the hazard assessment.
- Wear separate appropriate outer footwear over the garment sock. This garment has attached socks made of garment material. These socks are not suitable to used as outer footwear. They do not have adequate durability or slip resistance to be worn as the outer foot covering. (15)

Physical Properties



Data relating to mechanical performance of the fabrics used in DuPont chemical protective clothing, listed for the selected garment according to the test methods and relevant European standard, if applicable. Such properties, including abrasion and flex-cracking resistance, tensile strength and puncture resistance can help in the assessment of protective performance.

| Property | Test Method | Typical Result |
|----------------------------------|--|------------------------|
| Thickness | ASTM D1777 | 18 mils |
| Basis Weight | ASTM D3776 | 4.4 oz/yd ² |
| Tear Resistance - Trap Tear (MD) | ASTM D5587 | 23 lb _f |
| Tear Resistance - Trap Tear (CD) | ASTM D5587 | 29 lb _f |
| Breaking Strength - Grab (MD) | ASTM D5034 | 68 lb _f |
| Breaking Strength - Grab (CD) | ASTM D5034 | 60 lb _f |
| Wearing Apparel Flammability | 16 CFR 1610 <a data-toggle="fabPhyProp" href="#">  | Class 1 |

CHEMICAL RESISTANCE

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|-----------------------------------|------------|--------|----------------------------|
| Acetaldehyde | 75-07-0 | Liquid | 19 |
| Acetaldehyde | 75-07-0 | Liquid | 19 |
| Acetic acid (>95%) | 64-19-7 | Liquid | 84 |
| Acetic acid 2 ethoxy ethyl ester | 111-15-9 | Liquid | >480 |
| Acetic acid 2 ethoxy ethyl ester | 111-15-9 | Liquid | >480 |
| Acetic acid 2 methoxy ethyl ester | 110-49-6 | Liquid | >480 |
| Acetic acid 2 methoxy ethyl ester | 110-49-6 | Liquid | >480 |
| Acetic acid ethenyl ester | 108-05-4 | Liquid | >480 |
| Acetic acid ethenyl ester | 108-05-4 | Liquid | >480 |
| Acetic acid ethyl ester | 141-78-6 | Liquid | >480 |
| Acetic acid ethyl ester | 141-78-6 | Liquid | >480 |
| Acetic acid pentyl ester | 628-63-7 | Liquid | >480 |
| Acetic acid pentyl ester | 628-63-7 | Liquid | >480 |
| Acetic anhydride | 108-24-7 | Liquid | >480 |
| Acetic anhydride | 108-24-7 | Liquid | >480 |
| Acetic chloride | 75-36-5 | Liquid | >480 |
| Acetic chloride | 75-36-5 | Liquid | >480 |
| Acetone | 67-64-1 | Liquid | 462 |
| Acetone | 67-64-1 | Liquid | 462 |
| Acetonitrile | 75-05-8 | Liquid | imm |
| Acetonitrile | 75-05-8 | Liquid | imm |
| Acetyl chloride | 75-36-5 | Liquid | >480 |
| Acetyl chloride | 75-36-5 | Liquid | >480 |
| Acrolein | 107-02-8 | Liquid | 25*/178 |
| Acrolein | 107-02-8 | Liquid | 25*/178 |
| Acrylonitrile | 107-13-1 | Liquid | 31 |
| Acrylonitrile | 107-13-1 | Liquid | 31 |
| Acryloyl Chloride | 814-68-6 | Liquid | 55 |
| Acryloyl Chloride | 814-68-6 | Liquid | 55 |
| Adipic acid dinitrile | 111-69-3 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--------------------------------|------------|--------|----------------------------|
| Adipic acid dinitrile | 111-69-3 | Liquid | >480 |
| Adipic acid nitrile | 111-69-3 | Liquid | >480 |
| Adipic acid nitrile | 111-69-3 | Liquid | >480 |
| Adiponitrile | 111-69-3 | Liquid | >480 |
| Adiponitrile | 111-69-3 | Liquid | >480 |
| Adipyl dinitrile | 111-69-3 | Liquid | >480 |
| Allyl alcohol | 107-18-6 | Liquid | >480 |
| Allyl alcohol | 107-18-6 | Liquid | >480 |
| Allyl chloride | 107-05-1 | Liquid | 12 |
| Allyl chloride | 107-05-1 | Liquid | 12 |
| Amino benzene | 62-53-3 | Liquid | 320 |
| Amino benzene | 62-53-3 | Liquid | 320 |
| Amino ethanol, 2- | 141-43-5 | Liquid | >480 |
| Amino ethanol, 2- | 141-43-5 | Liquid | >480 |
| Amino ethylethanolamine | 111-41-1 | Liquid | >480 |
| Amino ethylethanolamine | 111-41-1 | Liquid | >480 |
| Amino ethylethanolamine (60%) | 111-41-1 | Liquid | >480 |
| Amino ethylpiperazine | 140-31-8 | Liquid | >480 |
| Amino ethylpiperazine | 140-31-8 | Liquid | >480 |
| Amino propane, 2- | 75-31-0 | Liquid | 15 |
| Amino propane, 2- | 75-31-0 | Liquid | 15 |
| Ammonia (-70 °C, liquid) | 7664-41-7 | Liquid | >480 |
| Ammonia (gaseous) | 7664-41-7 | Vapor | imm |
| Ammonium chloride (sat) | 12125-02-9 | Liquid | >480 |
| Ammonium hydroxide (28% - 30%) | 1336-21-6 | Liquid | 89 |
| Amyl acetate, n- | 628-63-7 | Liquid | >480 |
| Amyl acetate, n- | 628-63-7 | Liquid | >480 |
| Amyl alcohol | 71-41-0 | Liquid | >480 |
| Amyl alcohol | 71-41-0 | Liquid | >480 |
| Amyl ester acetic acid | 628-63-7 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|-----------------------------|------------|--------|----------------------------|
| Amyl ester acetic acid | 628-63-7 | Liquid | >480 |
| Aniline | 62-53-3 | Liquid | 320 |
| Aniline | 62-53-3 | Liquid | 320 |
| Anthracene (sat in Toluene) | 120-12-7 | Liquid | >480 |
| Anthracin (sat in Toluene) | 120-12-7 | Liquid | >480 |
| Azolidine | 123-75-1 | Liquid | 342 |
| Azolidine | 123-75-1 | Liquid | 342 |
| Benzenamine | 62-53-3 | Liquid | 320 |
| Benzenamine | 62-53-3 | Liquid | 320 |
| Benzene | 71-43-2 | Liquid | >480 |
| Benzene | 71-43-2 | Liquid | >480 |
| Benzene carbonyl chloride | 98-88-4 | Liquid | >480 |
| Benzene carbonyl chloride | 98-88-4 | Liquid | >480 |
| Benzene sulfone chloride | 98-09-9 | Liquid | >480 |
| Benzene sulfone chloride | 98-09-9 | Liquid | >480 |
| Benzene sulfonyl chloride | 98-09-9 | Liquid | >480 |
| Benzene sulfonyl chloride | 98-09-9 | Liquid | >480 |
| Benzo nitrile | 100-47-0 | Liquid | 450 |
| Benzo nitrile | 100-47-0 | Liquid | 450 |
| Benzo trichloride | 98-07-7 | Liquid | >480 |
| Benzo trichloride | 98-07-7 | Liquid | >480 |
| Benzoyl chloride | 98-88-4 | Liquid | >480 |
| Benzoyl chloride | 98-88-4 | Liquid | >480 |
| Benzyl chloride | 100-44-7 | Liquid | >480 |
| Benzyl chloride | 100-44-7 | Liquid | >480 |
| Benzyl chloro formate | 501-53-1 | Liquid | >480 |
| Benzyl chloro formate | 501-53-1 | Liquid | >480 |
| Benzyl cyanide | 140-29-4 | Liquid | >480 |
| Benzyl cyanide | 140-29-4 | Liquid | >480 |
| Black Liquor (mix) | mix | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|-------------------------------------|------------|--------|----------------------------|
| Boron trifluoride dimethyl etherate | 353-42-4 | Liquid | >480 |
| Boron trifluoride dimethyl etherate | 353-42-4 | Liquid | >480 |
| Bromine | 7726-95-6 | Liquid | imm |
| Bromine | 7726-95-6 | Liquid | imm |
| Bromo 4-fluorobenzene, 1- | 460-00-4 | Liquid | >480 |
| Bromo 4-fluorobenzene, 1- | 460-00-4 | Liquid | >480 |
| Bromo fluorobenzene, 4- | 460-00-4 | Liquid | >480 |
| Bromo fluorobenzene, 4- | 460-00-4 | Liquid | >480 |
| Butadiene, 1,3- (gaseous) | 106-99-0 | Vapor | >480 |
| Butanol, 1- | 71-36-3 | Liquid | >480 |
| Butanol, 1- | 71-36-3 | Liquid | >480 |
| Butanol, n- | 71-36-3 | Liquid | >480 |
| Butanol, n- | 71-36-3 | Liquid | >480 |
| Butanone | 78-93-3 | Liquid | >480 |
| Butanone | 78-93-3 | Liquid | >480 |
| Butyl acetate, n- | 123-86-4 | Liquid | >480 |
| Butyl acetate, n- | 123-86-4 | Liquid | >480 |
| Butyl alcohol, n- | 71-36-3 | Liquid | >480 |
| Butyl alcohol, n- | 71-36-3 | Liquid | >480 |
| Butyl amine | 109-73-9 | Liquid | >480 |
| Butyl amine | 109-73-9 | Liquid | >480 |
| Butyl ether, n- | 142-96-1 | Liquid | 117 |
| Butyl ether, n- | 142-96-1 | Liquid | 117 |
| Carbon disulfide | 75-15-0 | Liquid | imm |
| Carbon disulfide | 75-15-0 | Liquid | imm |
| Carbon tetrachloride | 56-23-5 | Liquid | >480 |
| Carbon tetrachloride | 56-23-5 | Liquid | >480 |
| Caustic ammonia (28% - 30%) | 1336-21-6 | Liquid | 89 |
| Caustic soda (50%) | 1310-73-2 | Liquid | >480 |
| Cellosolve acetate | 110-80-5 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|------------------------------|------------|--------|----------------------------|
| Cellosolve acetate | 110-80-5 | Liquid | >480 |
| Chlor allylene | 107-05-1 | Liquid | 12 |
| Chlor allylene | 107-05-1 | Liquid | 12 |
| Chlordane (44%) | 57-74-9 | Liquid | >480 |
| Chlorine (-70 °C, liquid) | 7782-50-5 | Liquid | >480 |
| Chlorine (gaseous) | 7782-50-5 | Vapor | imm |
| Chlorine sulfide (80%) | 10545-99-0 | Liquid | imm |
| Chloro 1-methylbenzene, 2- | 95-49-8 | Liquid | >480 |
| Chloro 1-methylbenzene, 2- | 95-49-8 | Liquid | >480 |
| Chloro 2,3-epoxy propane, 1- | 106-89-8 | Liquid | 36*/67 |
| Chloro 2,3-epoxy propane, 1- | 106-89-8 | Liquid | 36*/67 |
| Chloro acetic acid (80%) | 79-11-8 | Liquid | >480 |
| Chloro acetone (95%) | 78-95-5 | Liquid | >480 |
| Chloro acetyl chloride | 79-04-9 | Liquid | 77 |
| Chloro acetyl chloride | 79-04-9 | Liquid | 77 |
| Chloro acrylonitrile, 2- | 920-37-6 | Liquid | 146 |
| Chloro acrylonitrile, 2- | 920-37-6 | Liquid | 146 |
| Chloro benzene | 108-90-7 | Liquid | 63 |
| Chloro benzene | 108-90-7 | Liquid | 63 |
| Chloro benzotrichloride, 4- | 5216-25-1 | Liquid | >480 |
| Chloro benzotrichloride, 4- | 5216-25-1 | Liquid | >480 |
| Chloro benzotrifluoride, 4- | 98-56-6 | Liquid | 460 |
| Chloro benzotrifluoride, 4- | 98-56-6 | Liquid | 460 |
| Chloro ethanol, 2- | 107-07-3 | Liquid | >480 |
| Chloro ethanol, 2- | 107-07-3 | Liquid | >480 |
| Chloro ethene | 75-01-4 | Vapor | >480 |
| Chloro ethene | 75-01-4 | Vapor | >480 |
| Chloro form | 67-66-3 | Liquid | imm |
| Chloro form | 67-66-3 | Liquid | imm |
| Chloro prene, 3- | 107-05-1 | Liquid | 12 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--------------------------------|------------|--------|----------------------------|
| Chloro prene, 3- | 107-05-1 | Liquid | 12 |
| Chloro propan-2-one, 1- (95%) | 78-95-5 | Liquid | >480 |
| Chloro toluene, alpha- | 100-44-7 | Liquid | >480 |
| Chloro toluene, alpha- | 100-44-7 | Liquid | >480 |
| Chloro toluene, o- | 95-49-8 | Liquid | >480 |
| Chloro toluene, o- | 95-49-8 | Liquid | >480 |
| Chlorsulfonic acid | 7790-94-5 | Liquid | 330 |
| Chlorsulfonic acid | 7790-94-5 | Liquid | 330 |
| Citric acid (50%) | 77-92-9 | Liquid | >480 |
| Cresol o- | 95-48-7 | Liquid | 198 |
| Cresol o- | 95-48-7 | Liquid | 198 |
| Cumene | 98-82-8 | Liquid | 364 |
| Cumene | 98-82-8 | Liquid | 364 |
| Cyanobenzene | 100-47-0 | Liquid | 450 |
| Cyanobenzene | 100-47-0 | Liquid | 450 |
| Cyanoethylene | 107-13-1 | Liquid | 31 |
| Cyanoethylene | 107-13-1 | Liquid | 31 |
| Cyanomethane | 75-05-8 | Liquid | imm |
| Cyanomethane | 75-05-8 | Liquid | imm |
| Cyclo hexane | 110-82-7 | Liquid | >480 |
| Cyclo hexane | 110-82-7 | Liquid | >480 |
| Cyclo octadiene | 1552-12-1 | Liquid | >480 |
| Cyclo octadiene | 1552-12-1 | Liquid | >480 |
| DEHP | 117-81-7 | Liquid | >480 |
| Diaminoethane, 1,2- | 107-15-3 | Liquid | >480 |
| Diaminoethane, 1,2- | 107-15-3 | Liquid | >480 |
| Dibromo -3-chloropropane, 1,2- | 96-12-8 | Liquid | >480 |
| Dibromo -3-chloropropane, 1,2- | 96-12-8 | Liquid | >480 |
| Dibromoethane, 1,2- | 106-93-4 | Liquid | >480 |
| Dibromoethane, 1,2- | 106-93-4 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--------------------------------------|------------|--------|----------------------------|
| Dichlorbenzen, 1,2- | 95-50-1 | Liquid | >480 |
| Dichlorbenzen, 1,2- | 95-50-1 | Liquid | >480 |
| Dichlorbenzen, 1,3- | 541-73-1 | Liquid | >480 |
| Dichlorbenzen, 1,3- | 541-73-1 | Liquid | >480 |
| Dichlorbenzen, 1,4- (50% in Ethanol) | 106-46-7 | Liquid | 131 |
| Dichlorethane, 1,2.- | 107-06-2 | Liquid | >480 |
| Dichlorethane, 1,2.- | 107-06-2 | Liquid | >480 |
| Dichloro ethyl ether | 111-44-4 | Liquid | >480 |
| Dichloro ethyl ether | 111-44-4 | Liquid | >480 |
| Dichloro ethylene, 1,1- | 75-35-4 | Liquid | 170 |
| Dichloro ethylene, 1,1- | 75-35-4 | Liquid | 170 |
| Dichloro methane | 75-09-2 | Liquid | imm |
| Dichloro methane | 75-09-2 | Liquid | imm |
| Dichloro propene, 1,3- (95%) | 542-75-6 | Liquid | imm |
| Dichloro propene, 2,3- | 78-88-6 | Liquid | 280 |
| Dichloro propene, 2,3- | 78-88-6 | Liquid | 280 |
| Dicyanobutane, 1,4- | 111-69-3 | Liquid | >480 |
| Dicyanobutane, 1,4- | 111-69-3 | Liquid | >480 |
| Diesel fuel | 68334-30-5 | Liquid | 199 |
| Diesel fuel | 68334-30-5 | Liquid | 199 |
| Diethanolamine | 111-42-2 | Liquid | >480 |
| Diethanolamine | 111-42-2 | Liquid | >480 |
| Diethyl amine | 109-89-7 | Liquid | >480 |
| Diethyl amine | 109-89-7 | Liquid | >480 |
| Diethyl aniline, N,N- | 91-66-7 | Liquid | >480 |
| Diethyl aniline, N,N- | 91-66-7 | Liquid | >480 |
| Diethyl ether | 60-29-7 | Liquid | >480 |
| Diethyl ether | 60-29-7 | Liquid | >480 |
| Diethyl hexyl phthalate | 117-81-7 | Liquid | >480 |
| Diethyl hexyl phthalate | 117-81-7 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--|------------|--------|----------------------------|
| Diethyl sulfate | 64-67-5 | Liquid | >480 |
| Diethyl sulfate | 64-67-5 | Liquid | >480 |
| Diethylene triamine | 111-40-0 | Liquid | >480 |
| Diethylene triamine | 111-40-0 | Liquid | >480 |
| Diisopropylethylamine (DIPEA) | 7087-68-5 | Liquid | >480 |
| Diisopropylethylamine (DIPEA) | 7087-68-5 | Liquid | >480 |
| Dimethyl acetamide, N,N- | 127-19-5 | Liquid | >480 |
| Dimethyl acetamide, N,N- | 127-19-5 | Liquid | >480 |
| Dimethyl amine | 124-40-3 | Vapor | >480 |
| Dimethyl amine | 124-40-3 | Vapor | >480 |
| Dimethyl aniline, N,N- | 121-69-7 | Liquid | imm |
| Dimethyl aniline, N,N- | 121-69-7 | Liquid | imm |
| Dimethyl formamide, N,N- | 68-12-2 | Liquid | >480 |
| Dimethyl formamide, N,N- | 68-12-2 | Liquid | >480 |
| Dimethyl ketal | 67-64-1 | Liquid | 462 |
| Dimethyl ketal | 67-64-1 | Liquid | 462 |
| Dimethyl ketone | 67-64-1 | Liquid | 462 |
| Dimethyl ketone | 67-64-1 | Liquid | 462 |
| Dimethyl maleate | 624-48-6 | Liquid | >480 |
| Dimethyl maleate | 624-48-6 | Liquid | >480 |
| Dimethyl phenylamine, N,N- | 121-69-7 | Liquid | imm |
| Dimethyl phenylamine, N,N- | 121-69-7 | Liquid | imm |
| Dimethyl sulfate | 77-78-1 | Liquid | >480 |
| Dimethyl sulfate | 77-78-1 | Liquid | >480 |
| Dimethyl sulfoxide | 67-68-5 | Liquid | >480 |
| Dimethyl sulfoxide | 67-68-5 | Liquid | >480 |
| Dioxane, 1,4- | 123-91-1 | Liquid | >480 |
| Dioxane, 1,4- | 123-91-1 | Liquid | >480 |
| Diphenyl methane diisocyanate, 4,4'- (50 °C, molten) | 101-68-8 | Liquid | >480 |
| Disodium sulfide (60% (slurry)) | 1313-82-2 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|------------------------------|------------|--------|--------------------------|
| Dytek® A | 15520-10-2 | Liquid | >480 |
| Dytek® A | 15520-10-2 | Liquid | >480 |
| Epichlorohydrin | 106-89-8 | Liquid | 36*/67 |
| Epichlorohydrin | 106-89-8 | Liquid | 36*/67 |
| Epoxy ethane (11 °C, liquid) | 75-21-8 | Liquid | 18 |
| Epoxy ethane (gaseous) | 75-21-8 | Vapor | >480 |
| Epoxy propane, 1,2- | 75-56-9 | Liquid | 47 |
| Epoxy propane, 1,2- | 75-56-9 | Liquid | 47 |
| Ethane dioic acid (sat) | 144-62-7 | Liquid | >480 |
| Ethane nitrile | 75-05-8 | Liquid | imm |
| Ethane nitrile | 75-05-8 | Liquid | imm |
| Ethane thiol | 75-08-1 | Liquid | >480 |
| Ethane thiol | 75-08-1 | Liquid | >480 |
| Ethanol | 64-17-5 | Liquid | >480 |
| Ethanol | 64-17-5 | Liquid | >480 |
| Ethanol amine | 141-43-5 | Liquid | >480 |
| Ethanol amine | 141-43-5 | Liquid | >480 |
| Ethanoyl chloride | 75-36-5 | Liquid | >480 |
| Ethanoyl chloride | 75-36-5 | Liquid | >480 |
| Ethoxy ethanol, 2- | 110-80-5 | Liquid | >480 |
| Ethoxy ethanol, 2- | 110-80-5 | Liquid | >480 |
| Ethoxy ethylacetat | 111-15-9 | Liquid | >480 |
| Ethoxy ethylacetat | 111-15-9 | Liquid | >480 |
| Ethyl Cellosolve® | 110-80-5 | Liquid | >480 |
| Ethyl Cellosolve® | 110-80-5 | Liquid | >480 |
| Ethyl acetate | 141-78-6 | Liquid | >480 |
| Ethyl acetate | 141-78-6 | Liquid | >480 |
| Ethyl alcohol | 64-17-5 | Liquid | >480 |
| Ethyl alcohol | 64-17-5 | Liquid | >480 |
| Ethyl benzene | 100-41-4 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--|------------|--------|----------------------------|
| Ethyl benzene | 100-41-4 | Liquid | >480 |
| Ethyl ethanamine, N- | 109-89-7 | Liquid | >480 |
| Ethyl ethanamine, N- | 109-89-7 | Liquid | >480 |
| Ethyl ether | 60-29-7 | Liquid | >480 |
| Ethyl ether | 60-29-7 | Liquid | >480 |
| Ethyl glycol acetate | 111-15-9 | Liquid | >480 |
| Ethyl glycol acetate | 111-15-9 | Liquid | >480 |
| Ethyl mercaptan | 75-08-1 | Liquid | >480 |
| Ethyl mercaptan | 75-08-1 | Liquid | >480 |
| Ethyl nitrile | 75-05-8 | Liquid | imm |
| Ethyl nitrile | 75-05-8 | Liquid | imm |
| Ethylene chlorohydrin | 107-07-3 | Liquid | >480 |
| Ethylene chlorohydrin | 107-07-3 | Liquid | >480 |
| Ethylene diamine | 107-15-3 | Liquid | >480 |
| Ethylene diamine | 107-15-3 | Liquid | >480 |
| Ethylene dibromide | 106-93-4 | Liquid | >480 |
| Ethylene dibromide | 106-93-4 | Liquid | >480 |
| Ethylene dichloride | 107-06-2 | Liquid | >480 |
| Ethylene dichloride | 107-06-2 | Liquid | >480 |
| Ethylene glycol acrylate | 818-61-1 | Liquid | >480 |
| Ethylene glycol acrylate | 818-61-1 | Liquid | >480 |
| Ethylene glycol mono ethyl ether acetate | 111-15-9 | Liquid | >480 |
| Ethylene glycol mono ethyl ether acetate | 111-15-9 | Liquid | >480 |
| Ethylene glycol monoethyl ether | 110-80-5 | Liquid | >480 |
| Ethylene glycol monoethyl ether | 110-80-5 | Liquid | >480 |
| Ethylene glycol monomethyl ether | 109-86-4 | Liquid | 405 |
| Ethylene glycol monomethyl ether | 109-86-4 | Liquid | 405 |
| Ethylene glycol monomethyl ether acetate | 110-49-6 | Liquid | >480 |
| Ethylene glycol monomethyl ether acetate | 110-49-6 | Liquid | >480 |
| Ethylene oxide (11 °C, liquid) | 75-21-8 | Liquid | 18 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|---------------------------------------|------------|--------|----------------------------|
| Ethylene oxide (gaseous) | 75-21-8 | Vapor | >480 |
| Ethylene tetrachloride | 127-18-4 | Liquid | >480 |
| Ethylene tetrachloride | 127-18-4 | Liquid | >480 |
| Ethylene trichloride | 79-01-6 | Liquid | >480 |
| Ethylene trichloride | 79-01-6 | Liquid | >480 |
| Fluorobenzene | 462-06-6 | Liquid | >480 |
| Fluorobenzene | 462-06-6 | Liquid | >480 |
| Fluorosilicic acid (33-35%) | 16961-83-4 | Liquid | >480 |
| Formaldehyde (37%) | 50-00-0 | Liquid | >480 |
| Formalin (37% (10-15% Methanol)) | 50-00-0 | Liquid | >480 |
| Formalin (37%) | 50-00-0 | Liquid | >480 |
| Formic acid (>95%) | 64-18-6 | Liquid | >480 |
| Furaldehyde, 2- | 98-01-1 | Liquid | >480 |
| Furaldehyde, 2- | 98-01-1 | Liquid | >480 |
| Furfural | 98-01-1 | Liquid | >480 |
| Furfural | 98-01-1 | Liquid | >480 |
| Gasoline, unleaded | 86290-81-5 | Liquid | >480 |
| Gasoline, unleaded | 86290-81-5 | Liquid | >480 |
| Glycol chlorohydrin | 107-07-3 | Liquid | >480 |
| Glycol chlorohydrin | 107-07-3 | Liquid | >480 |
| Green Liquor (mix) | mix | Liquid | >480 |
| Heptane | 142-82-5 | Liquid | >480 |
| Heptane | 142-82-5 | Liquid | >480 |
| Hexamethylene diamine (50 °C, molten) | 124-09-4 | Liquid | 45 |
| Hexamethylene diisocyanate | 822-06-0 | Liquid | >480 |
| Hexamethylene diisocyanate | 822-06-0 | Liquid | >480 |
| Hexane, n- | 110-54-3 | Liquid | >480 |
| Hexane, n- | 110-54-3 | Liquid | >480 |
| Hexone | 108-10-1 | Liquid | >480 |
| Hexone | 108-10-1 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|------------|--------|--------------------------|
| Hydriodic acid (55-57%) | 10034-85-2 | Liquid | >480 |
| Hydrobromic acid (48%) | 10035-10-6 | Liquid | >480 |
| Hydrochloric acid (37%) | 7647-01-0 | Liquid | >480 |
| Hydrofluoric acid (48-51%) | 7664-39-3 | Liquid | >480 |
| Hydrofluoric acid (70%) | 7664-39-3 | Liquid | 126 |
| Hydrogen chloride (gaseous) | 7647-01-0 | Vapor | >480 |
| Hydrogen cyanide (27 °C, gaseous) | 74-90-8 | Vapor | 30 |
| Hydrogen fluoride (20-27 °C, gaseous) | 7664-39-3 | Vapor | 186 |
| Hydrogen peroxide (50%) | 7722-84-1 | Liquid | >480 |
| Hydrogen sulfide | 7783-06-4 | Vapor | imm |
| Hydrogen sulfide | 7783-06-4 | Vapor | imm |
| Hydroxy 1,2,3-propanetricarboxylic acid, 2- (50%) | 77-92-9 | Liquid | >480 |
| Hydroxy propene | 107-18-6 | Liquid | >480 |
| Hydroxy toluene, o- | 95-48-7 | Liquid | 198 |
| Hydroxy toluene, o- | 95-48-7 | Liquid | 198 |
| Hypophosphorus acid (50%) | 6303-21-5 | Liquid | >480 |
| Isobutyl methyl ketone | 108-10-1 | Liquid | >480 |
| Isobutyl methyl ketone | 108-10-1 | Liquid | >480 |
| Isopropanol | 67-63-0 | Liquid | >480 |
| Isopropanol | 67-63-0 | Liquid | >480 |
| Isopropyl alcohol | 67-63-0 | Liquid | >480 |
| Isopropyl alcohol | 67-63-0 | Liquid | >480 |
| Isopropyl amine | 75-31-0 | Liquid | 15 |
| Isopropyl amine | 75-31-0 | Liquid | 15 |
| Isopropyl benzene | 98-82-8 | Liquid | 364 |
| Isopropyl benzene | 98-82-8 | Liquid | 364 |
| JP-8 Jet Fuel | 94114-58-6 | Liquid | >480 |
| JP-8 Jet Fuel | 94114-58-6 | Liquid | >480 |
| Kerosene | 8008-20-6 | Liquid | >480 |
| Kerosene | 8008-20-6 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|--|------------|--------|--------------------------|
| Ketone propane | 67-64-1 | Liquid | 462 |
| Ketone propane | 67-64-1 | Liquid | 462 |
| Lewisite (L), MIL-STD-282 (10 g/m ²) | 541-25-3 | Liquid | 120 ⁸ |
| Limonene d- | 5989-27-5 | Liquid | >480 |
| Limonene d- | 5989-27-5 | Liquid | >480 |
| MEK | 78-93-3 | Liquid | >480 |
| Mercapto acetic acid | 68-11-1 | Liquid | >480 |
| Mercapto acetic acid | 68-11-1 | Liquid | >480 |
| Mercury | 7439-97-6 | Liquid | >480 |
| Mercury | 7439-97-6 | Liquid | >480 |
| Methacrylic acid | 79-41-4 | Liquid | 81 |
| Methacrylic acid | 79-41-4 | Liquid | 81 |
| Methanethiol | 74-93-1 | Vapor | >480 |
| Methanethiol | 74-93-1 | Vapor | >480 |
| Methanol | 67-56-1 | Liquid | imm |
| Methanol | 67-56-1 | Liquid | imm |
| Methoxy 2-methylpropane, 2- | 1634-04-4 | Liquid | >480 |
| Methoxy 2-methylpropane, 2- | 1634-04-4 | Liquid | >480 |
| Methoxy ethanol, 2 | 109-86-4 | Liquid | 405 |
| Methoxy ethanol, 2 | 109-86-4 | Liquid | 405 |
| Methoxy ethylacetate, 2- | 110-49-6 | Liquid | >480 |
| Methoxy ethylacetate, 2- | 110-49-6 | Liquid | >480 |
| Methyl 4-isopropenyl-1-cyclohexene, 1- | 5989-27-5 | Liquid | >480 |
| Methyl 4-isopropenyl-1-cyclohexene, 1- | 5989-27-5 | Liquid | >480 |
| Methyl acetyl | 67-64-1 | Liquid | 462 |
| Methyl acetyl | 67-64-1 | Liquid | 462 |
| Methyl amine (40%) | 74-89-5 | Liquid | 140 |
| Methyl benzol | 108-88-3 | Liquid | >480 |
| Methyl benzol | 108-88-3 | Liquid | >480 |
| Methyl chloride (gaseous) | 74-87-3 | Vapor | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---------------------------|------------|--------|--------------------------|
| Methyl chloroform | 71-55-6 | Liquid | >480 |
| Methyl chloroform | 71-55-6 | Liquid | >480 |
| Methyl cyanide | 75-05-8 | Liquid | imm |
| Methyl cyanide | 75-05-8 | Liquid | imm |
| Methyl ethyl ketone | 78-93-3 | Liquid | >480 |
| Methyl ethyl ketone | 78-93-3 | Liquid | >480 |
| Methyl formamide, N- | 123-39-7 | Liquid | >480 |
| Methyl formamide, N- | 123-39-7 | Liquid | >480 |
| Methyl isocyanate | 624-83-9 | Liquid | 12 |
| Methyl isocyanate | 624-83-9 | Liquid | 12 |
| Methyl ketone | 67-64-1 | Liquid | 462 |
| Methyl ketone | 67-64-1 | Liquid | 462 |
| Methyl mercaptan | 74-93-1 | Vapor | >480 |
| Methyl mercaptan | 74-93-1 | Vapor | >480 |
| Methyl pentan-2-one, 4- | 108-10-1 | Liquid | >480 |
| Methyl pentan-2-one, 4- | 108-10-1 | Liquid | >480 |
| Methyl propenoic acid, 2- | 79-41-4 | Liquid | 81 |
| Methyl propenoic acid, 2- | 79-41-4 | Liquid | 81 |
| Methyl pyridine, 2- | 109-06-8 | Liquid | >480 |
| Methyl pyridine, 2- | 109-06-8 | Liquid | >480 |
| Methyl pyridine, 3- | 108-99-6 | Liquid | >480 |
| Methyl pyridine, 3- | 108-99-6 | Liquid | >480 |
| Methyl tert-butyl ether | 1634-04-4 | Liquid | >480 |
| Methyl tert-butyl ether | 1634-04-4 | Liquid | >480 |
| Methyl trichloromethane | 71-55-6 | Liquid | >480 |
| Methyl trichloromethane | 71-55-6 | Liquid | >480 |
| Methyl trichlorosilane | 75-79-6 | Liquid | >480 |
| Methyl trichlorosilane | 75-79-6 | Liquid | >480 |
| Methylene bromide | 74-95-3 | Liquid | 40 |
| Methylene bromide | 74-95-3 | Liquid | 40 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|--|------------|--------|--------------------------|
| Methylene chloride | 75-09-2 | Liquid | imm |
| Methylene chloride | 75-09-2 | Liquid | imm |
| Methylene diphenyl diisocyanate, 4,4'- (50 °C, molten) | 101-68-8 | Liquid | >480 |
| N-Methylmorpholine (NMM) | 109-02-4 | Liquid | >480 |
| N-Methylmorpholine (NMM) | 109-02-4 | Liquid | >480 |
| Naphthalene | 91-20-3 | Solid | >480 |
| Naphthalene | 91-20-3 | Solid | >480 |
| Naphthalene (25% in Diethylene glycol dimethylether) | 91-20-3 | Liquid | >480 |
| Nicotine | 54-11-5 | Liquid | >480 |
| Nicotine | 54-11-5 | Liquid | >480 |
| Nitric acid (90%) | 7697-37-2 | Liquid | >480 |
| Nitro benzene | 98-95-3 | Liquid | >480 |
| Nitro benzene | 98-95-3 | Liquid | >480 |
| Nitro methane | 75-52-5 | Liquid | >480 |
| Nitro methane | 75-52-5 | Liquid | >480 |
| Nitro propane, 2- | 79-46-9 | Liquid | >480 |
| Nitro propane, 2- | 79-46-9 | Liquid | >480 |
| Norflurane | 811-97-2 | Vapor | >480 |
| Norflurane | 811-97-2 | Vapor | >480 |
| Oleum (65% free SO3) | 8014-95-7 | Liquid | 15 |
| Oxalic acid (sat) | 144-62-7 | Liquid | >480 |
| PCB in transformer oil (mix) | mix | Liquid | >480 |
| Pentanol, 1- | 71-41-0 | Liquid | >480 |
| Pentanol, 1- | 71-41-0 | Liquid | >480 |
| Pentyl acetate | 628-63-7 | Liquid | >480 |
| Pentyl acetate | 628-63-7 | Liquid | >480 |
| Phenethyl alcohol, 2- | 60-12-8 | Liquid | >480 |
| Phenethyl alcohol, 2- | 60-12-8 | Liquid | >480 |
| Phenethylene | 100-42-5 | Liquid | >480 |
| Phenethylene | 100-42-5 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--|------------|--------|----------------------------|
| Phenol (45 °C, molten) | 108-95-2 | Liquid | 17 |
| Phenol (60 °C, molten) | 108-95-2 | Liquid | imm |
| Phenol (85%) | 108-95-2 | Liquid | 341 |
| Phenyl acetonitrile | 140-29-4 | Liquid | >480 |
| Phenyl acetonitrile | 140-29-4 | Liquid | >480 |
| Phenyl amine | 62-53-3 | Liquid | 320 |
| Phenyl amine | 62-53-3 | Liquid | 320 |
| Phenyl chloride | 108-90-7 | Liquid | 63 |
| Phenyl chloride | 108-90-7 | Liquid | 63 |
| Phenyl cyanide | 100-47-0 | Liquid | 450 |
| Phenyl cyanide | 100-47-0 | Liquid | 450 |
| Phenyl ethane | 100-41-4 | Liquid | >480 |
| Phenyl ethane | 100-41-4 | Liquid | >480 |
| Phenyl ethanol, 1- | 98-85-1 | Liquid | >480 |
| Phenyl ethanol, 1- | 98-85-1 | Liquid | >480 |
| Phenyl propane, 2- | 98-82-8 | Liquid | 364 |
| Phenyl propane, 2- | 98-82-8 | Liquid | 364 |
| Phosgene | 75-44-5 | Vapor | >480 |
| Phosgene | 75-44-5 | Vapor | >480 |
| Phosphinic acid (50%) | 6303-21-5 | Liquid | >480 |
| Phosphoric acid (85%) | 7664-38-2 | Liquid | >480 |
| Phosphorus oxychloride | 10025-87-3 | Liquid | 410 |
| Phosphorus oxychloride | 10025-87-3 | Liquid | 410 |
| Phosphorus trichloride | 7719-12-2 | Liquid | >480 |
| Phosphorus trichloride | 7719-12-2 | Liquid | >480 |
| Picoline, 2- | 109-06-8 | Liquid | >480 |
| Picoline, 2- | 109-06-8 | Liquid | >480 |
| Picoline, 3- | 108-99-6 | Liquid | >480 |
| Picoline, 3- | 108-99-6 | Liquid | >480 |
| Polymethylene polyphenyle isocyanate (p-MDI) | 9016-87-9 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--|------------|--------|----------------------------|
| Polymethylene polyphenyle isocyanate (p-MDI) | 9016-87-9 | Liquid | >480 |
| Potassium carbonate (sat) | 584-08-7 | Liquid | >480 |
| Potassium hydroxide (45%) | 1310-58-3 | Liquid | >480 |
| Prop-2-en-1-al | 107-02-8 | Liquid | 25*/178 |
| Prop-2-en-1-al | 107-02-8 | Liquid | 25*/178 |
| Propan -2-ol | 67-63-0 | Liquid | >480 |
| Propan -2-ol | 67-63-0 | Liquid | >480 |
| Propan -2-one | 67-64-1 | Liquid | 462 |
| Propan -2-one | 67-64-1 | Liquid | 462 |
| Propen 1-ol, 2- | 107-18-6 | Liquid | >480 |
| Propen 1-ol, 2- | 107-18-6 | Liquid | >480 |
| Propenenitrile, 2- | 107-13-1 | Liquid | 31 |
| Propenenitrile, 2- | 107-13-1 | Liquid | 31 |
| Propenoic acid nitrile | 107-13-1 | Liquid | 31 |
| Propenoic acid nitrile | 107-13-1 | Liquid | 31 |
| Propyl amine, n- | 107-10-8 | Liquid | 100 |
| Propyl amine, n- | 107-10-8 | Liquid | 100 |
| Propyl bromide, n- | 106-94-5 | Liquid | >480 |
| Propyl bromide, n- | 106-94-5 | Liquid | >480 |
| Propylene oxide, 1,2- | 75-56-9 | Liquid | 47 |
| Propylene oxide, 1,2- | 75-56-9 | Liquid | 47 |
| Pyridine | 110-86-1 | Liquid | >480 |
| Pyridine | 110-86-1 | Liquid | >480 |
| Pyroacetic ether | 67-64-1 | Liquid | 462 |
| Pyroacetic ether | 67-64-1 | Liquid | 462 |
| Pyrrolidine | 123-75-1 | Liquid | 342 |
| Pyrrolidine | 123-75-1 | Liquid | 342 |
| Sarin (GB), MIL-STD-282 (10 g/m ²) | 107-44-8 | Liquid | 120 ⁸ |
| Silicon tetrachloride | 10026-04-7 | Liquid | >480 |
| Silicon tetrachloride | 10026-04-7 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|---|------------|--------|----------------------------|
| Sodium cyanide (45%) | 143-33-9 | Liquid | >480 |
| Sodium hydroxide (50%) | 1310-73-2 | Liquid | >480 |
| Sodium hypochlorite (15%) | 7681-52-9 | Liquid | >480 |
| Sodium metabisulphite (38%) | 7681-57-4 | Liquid | 23 |
| Soman (GD), MIL-STD-282 (10 g/m ²) | 96-64-0 | Liquid | >480 ⁸ |
| Spiritus | 64-17-5 | Liquid | >480 |
| Spiritus | 64-17-5 | Liquid | >480 |
| Styrene | 100-42-5 | Liquid | >480 |
| Styrene | 100-42-5 | Liquid | >480 |
| Sulfur Mustard (HD), MIL-STD-282 (10 g/m ²) | 505-60-2 | Liquid | 120 ⁸ |
| Sulfur trioxide | 7446-11-9 | Liquid | imm |
| Sulfur trioxide | 7446-11-9 | Liquid | imm |
| Sulfuric acid (>95%) | 7664-93-9 | Liquid | >480 |
| Sulfuric acid diethyl ester | 64-67-5 | Liquid | >480 |
| Sulfuric acid diethyl ester | 64-67-5 | Liquid | >480 |
| Sulfuric acid dimethyl ester | 77-78-1 | Liquid | >480 |
| Sulfuric acid dimethyl ester | 77-78-1 | Liquid | >480 |
| Sulfuric acid fuming (65% free SO ₃) | 8014-95-7 | Liquid | 15 |
| Sulfuryl chloride | 7791-25-5 | Liquid | 120 |
| Sulfuryl chloride | 7791-25-5 | Liquid | 120 |
| Sulphur dichloride (80%) | 10545-99-0 | Liquid | imm |
| Tetrachloro ethane, 1,1,2,2,- | 79-34-5 | Liquid | >480 |
| Tetrachloro ethane, 1,1,2,2,- | 79-34-5 | Liquid | >480 |
| Tetrachloro ethylene, 1,1,2,2,- | 127-18-4 | Liquid | >480 |
| Tetrachloro ethylene, 1,1,2,2,- | 127-18-4 | Liquid | >480 |
| Tetrachloro methane | 56-23-5 | Liquid | >480 |
| Tetrachloro methane | 56-23-5 | Liquid | >480 |
| Tetraethyl lead | 78-00-2 | Liquid | >480 |
| Tetraethyl lead | 78-00-2 | Liquid | >480 |
| Tetraethylene pentamine | 112-57-2 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|---|------------|--------|----------------------------|
| Tetraethylene pentamine | 112-57-2 | Liquid | >480 |
| Tetrafluoroethane, 1,1,1,2- | 811-97-2 | Vapor | >480 |
| Tetrafluoroethane, 1,1,1,2- | 811-97-2 | Vapor | >480 |
| Tetrahydrofuran | 109-99-9 | Liquid | >480 |
| Tetrahydrofuran | 109-99-9 | Liquid | >480 |
| Tetramethylethylene diamine (TMEDA) | 110-18-9 | Liquid | >480 |
| Tetramethylethylene diamine (TMEDA) | 110-18-9 | Liquid | >480 |
| Thioglycolic acid | 68-11-1 | Liquid | >480 |
| Thioglycolic acid | 68-11-1 | Liquid | >480 |
| Thionyl chloride | 7719-09-7 | Liquid | 15 |
| Thionyl chloride | 7719-09-7 | Liquid | 15 |
| Titan(IV) chloride | 7550-45-0 | Liquid | 120 |
| Titan(IV) chloride | 7550-45-0 | Liquid | 120 |
| Titanium tetrachloride | 7550-45-0 | Liquid | 120 |
| Titanium tetrachloride | 7550-45-0 | Liquid | 120 |
| Toluene | 108-88-3 | Liquid | >480 |
| Toluene | 108-88-3 | Liquid | >480 |
| Toluene diisocyanate, 2,4- | 584-84-9 | Liquid | >480 |
| Toluene diisocyanate, 2,4- | 584-84-9 | Liquid | >480 |
| Toluene diisocyanate, 2,4- (80%) | 584-84-9 | Liquid | >480 |
| Tributyl amine (95%) | 102-82-9 | Liquid | >480 |
| Trichloro 1,2,2-trifluoroethane, 1,1,2- | 76-13-1 | Liquid | >480 |
| Trichloro 1,2,2-trifluoroethane, 1,1,2- | 76-13-1 | Liquid | >480 |
| Trichloro benzene, 1,2,4- | 120-82-1 | Liquid | >480 |
| Trichloro benzene, 1,2,4- | 120-82-1 | Liquid | >480 |
| Trichloro ethane, 1,1,1- | 71-55-6 | Liquid | >480 |
| Trichloro ethane, 1,1,1- | 71-55-6 | Liquid | >480 |
| Trichloro ethanol, 2,2,2- | 115-20-8 | Liquid | >480 |
| Trichloro ethanol, 2,2,2- | 115-20-8 | Liquid | >480 |
| Trichloro ethylene | 79-01-6 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--|------------|--------|----------------------------|
| Trichloro ethylene | 79-01-6 | Liquid | >480 |
| Trichloro methane | 67-66-3 | Liquid | imm |
| Trichloro methane | 67-66-3 | Liquid | imm |
| Triethylenetetramine (60%) | 112-24-3 | Liquid | >480 |
| VX Nerve Agent, MIL-STD-282 (10 g/m ²) | 50782-69-9 | Liquid | >480 ⁸ |
| Vinyl acetate | 108-05-4 | Liquid | >480 |
| Vinyl acetate | 108-05-4 | Liquid | >480 |
| Vinyl benzol | 100-42-5 | Liquid | >480 |
| Vinyl benzol | 100-42-5 | Liquid | >480 |
| Vinyl carbinol | 107-18-6 | Liquid | >480 |
| Vinyl carbinol | 107-18-6 | Liquid | >480 |
| Vinyl chloride | 75-01-4 | Vapor | >480 |
| Vinyl chloride | 75-01-4 | Vapor | >480 |
| Vinyl cyanide | 107-13-1 | Liquid | 31 |
| Vinyl cyanide | 107-13-1 | Liquid | 31 |
| Vinyl ethylene (gaseous) | 106-99-0 | Vapor | >480 |
| Vinylidene chloride | 75-35-4 | Liquid | 170 |
| Vinylidene chloride | 75-35-4 | Liquid | 170 |
| White Liquor | mix | Liquid | >480 |
| White Liquor | mix | Liquid | >480 |
| Xylene, mixed isomers | 1330-20-7 | Liquid | >480 |
| Xylene, mixed isomers | 1330-20-7 | Liquid | >480 |
| Xylene, o- | 95-47-6 | Liquid | >480 |

BT0.1 Normalized breakthrough time at 0.1 µg/cm²/min [mins] CAS Chemical abstracts service registry number min Minute > Larger than < Smaller than imm Immediate (< 10 min) nm Not tested sat Saturated solution N/A Not Applicable na Not attained GPR grade General purpose reagent grade * Based on lowest single value 8 Actual

breakthrough time; normalized breakthrough time is not available DOT5 Degradation after 5 min DOT30 Degradation after 30 min DOT60 Degradation after 60 min DOT240 Degradation after 240 min BT1383 Normalized breakthrough time at 0.1 µg/cm²/min [mins]. acc. ASTM F1383

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