



PERMEATION DATA - (EN)

Chemical	Physical state	CAS	BT 1.0	EN Class
1-Butanol (>99%)	Liquid	71-36-3	> 480	6
1,2-Dichloroethane (99%)	Liquid	107-06-2	13	1
1,3 Butadiene	g	106-99-0	> 480	6
2-Ethoxyethanol (99%)	Liquid	110-80-5	> 480	6
2,2,2-Trichloroethanol	Liquid	115-20-8	> 480	6
3-Methyl-1-butanol (33%)	Liquid	123-51-3	> 480	6
Acetic acid (99%)	Liquid	64-19-7	> 480	6
Acetone (> 99%)	Liquid	67-64-1	45	2
Acetonitrile (> 99%)	Liquid	75-05-8	> 480	6
Acetyl chloride (98%)	Liquid	75-36-5	52	2
Acryl amide (50%)	Liquid	79-06-1	> 480	6
Acrylic acid (99%)	Liquid	79-10-7	> 480	6
Allyl alcohol (99%)	Liquid	107-18-6	> 480	6
Ammonia	g	7664-41-7	> 480	6
Ammonium hydroxide (2%)	Liquid	1336-21-6	> 480	6
Ammonium hydroxide (32%)	Liquid	1336-21-6	> 480	6
Aniline (>99%)	Liquid	62-53-3	> 480	6
Benzene (99%)	Liquid	71-43-2	< 6	
Benzyl alcohol (99%)	Liquid	100-51-6	> 480	6
Benzyl chloride (99%)	Liquid	100-44-7	247	5
Bromine (99%)	Liquid	7726-95-6	< 6	
Bromomethane (g)	g	74-83-9	75	3
Butanone (99%)	Liquid	78-93-3	30	1
Butyraldehyde (>99%)	Liquid	123-72-8	37	2
Carbon disulphide (>99%)	Liquid	75-15-0	< 6	
Chlorine	g	7782-50-5	> 480	6
Chloroacetic acid (80%)	Liquid	79-11-8	> 480	6
Chloroacetone (95%)	Liquid	78-95-5	> 480	6
Chloroform (99%)	Liquid	67-66-3	10	
Dichloromethane (>99%)	Liquid	75-09-2	< 6	
Diethanolamine (98%)	Liquid	111-42-2	> 480	6
Diethylamine (>99%)	Liquid	109-89-7	42	2
Dimethyl sulphate (>99%)	Liquid	77-78-1	> 480	6
Dimethylethanolamine (98%)	Liquid	108-01-0	> 480	6
Dimethylformamide (>99%)	Liquid	68-12-2	> 480	6
Ethanol (>99%)	Liquid	64-17-5	> 480	6
Ethyl acetate (>99%)	Liquid	141-78-6	26	1
Ethylene glycol monobutyl ether (99%)	Liquid	111-76-2	> 480	6
Ethylene oxide (g)	g	75-21-8	22	1
Fluorobenzene (99%)	Liquid	462-06-6	29	1
Fluosilicic acid (33%)	Liquid	16961-83-4	> 480	6
Formaldehyde (37% in Methanol 10%)	Liquid	50-00-0	> 480	6
Formic acid (88%)	Liquid	64-18-6	> 480	6
Heptane (99%)	Liquid	142-82-5	> 480	6
Hydriodic acid (57%)	Liquid	10034-85-2	> 480	6
Hydrobromic acid (48%)	Liquid	10035-10-6	> 480	6
Hydrochloric acid (37%)	Liquid	7647-01-0	> 480	6
Hydrofluoric acid (48%)	Liquid	7664-39-3	> 480	6
Hydrofluoric acid (70%)	Liquid	7664-39-3	> 480	6
Hydrogen chloride	g	7647-01-0	> 480	6
Hydrogen cyanide (sat)	Liquid	74-90-8	> 480	6
Hydrogen peroxide (30%)	Liquid	7722-84-1	> 480	6
Hydrogen sulphide (g)	g	7783-06-4	> 480	6
Iron (III) chloride (50%)	Liquid	7705-08-0	> 480	6
Isopropanol (> 99%)	Liquid	67-63-0	> 480	6
Isopropanol (70%)	Liquid	67-63-0	> 480	6
m-Xylene (99%)	Liquid	108-38-3	24	
Methanesulfonic acid (70%)	Liquid	75-75-2	> 480	6
Methanol (>99%)	Liquid	67-56-1	> 480	6
Methoxyisopropanol (>99%)	Liquid	107-98-2	> 480	6
Methoxyisopropyl acetate (>99%)	Liquid	108-65-6	> 480	6
Methyl chloride	g	74-87-3	> 480	6



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Chemical	Physical state	CAS	BT 1.0	EN Class
n-Hexane (95%)	liquid	110-54-3	20	1
Nitric acid (69%)	liquid	7697-37-2	> 480	6
Nitrobenzene (99%)	Liquid	98-95-3	261	5
Nitrogen monoxide (g)	g	10102-43-9	> 480	6
Oleum (20% free SO ₃)	Liquid	8014-95-7	> 480	6
Oleum (30% free SO ₃)	Liquid	8014-95-7	> 480	6
Phenol (89%)	Liquid	108-95-2	> 480	6
Phosphoric acid (85%)	Liquid	7664-38-2	> 480	6
Potassium acetate (saturated)	Liquid	127-08-2	> 480	6
Potassium chromate (saturated)	Liquid	7789-00-6	> 480	6
Potassium hydroxide (45%)	Liquid	1310-58-3	> 480	6
Potassium hydroxide (50%)	Liquid	1310-58-3	> 480	6
Propene (g)	g	115-07-1	> 480	6
Propyl bromide (99%)	Liquid	106-94-5	30	2
Sodium cyanide (saturated)	Liquid	143-33-9	> 480	6
Sodium fluoride (saturated)	Liquid	7681-49-4	> 480	6
Sodium hydroxide	Solid	1310-73-2	> 480	6
Sodium hydroxide (42%)	Liquid	1310-73-2	> 480	6
Sodium hydroxide (50%)	Liquid	1310-73-2	> 480	6
Sodium hydroxide (50%) / 45,7 C	Liquid	1310-73-2	> 480	6
Sodium hypochlorite (15%)	Liquid	7681-52-9	> 480	6
Styrene (99%)	Liquid	100-42-5	77	3
Sulphur dioxide	g	7446-09-5	> 480	6
Sulphuric acid (98%)	Liquid	7664-93-9	> 480	6
Sulphuric acid (95%)	Liquid	7664-93-9	> 480	6
Tetrachloroethane (98%)	Liquid	79-01-6	128	4
Tetrafluoroboric acid (48%)	Liquid	16872-11-0	> 480	6
Tetramethylammonium hydroxide (25%)	Liquid	75-59-2	>480	6
Tetramethylammonium hydroxide (sat)	Liquid	10424-65-4	> 480	6
Toluene (>99%)	Liquid	108-88-3	< 6	
Vinyl acetate (99%)	Liquid	108-05-4	49	2
Vinyl chloride (g)	g	75-01-4	> 480	6

The permeation data published have been generated for ASATEX AG by independent accredited testing laboratories according to the test method (EN ISO 6529 (method A)).

Classification according to EN 14325:2018

Standard ISO 6529:2013

BT 1.0 Normalized breakthrough time at 1.0 µg/cm²/min

CAS-Number (Chemical abstracts service registry number)

The tests were performed between 20 °C and 27 °C and at environmental pressure unless otherwise stated. A different temperature may have significant influence on the breakthrough time. The performance levels indicated are based on certain breakthrough times for constant contact with the chemical product, in normal laboratory conditions. The protection provided by the garment in the workplace may vary significantly from these performance levels. 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.

Please use the permeation data provided as a part of the risk assessment to assist with the selection of a protective fabric, garment, glove or accessory suitable for your application.