

CHEMICAL PROTECTION GLOVES

Break-through-times (BTT) for a selection of common chemicals

Break-through-time (BTT) is the time when a chemical is considered to have permeated (passed through) a material. It depends primarily on the material and secondarily on the thickness (and other factors). All data refer to full contact with the chemicals at room temperature, and need to be adjusted for actual conditions and additional risks. The BTT data in this chemical protection guide originate from combined data from laboratory tests and our internal database. The BTT values are calculated from best-fit to experimental points and rounded downwards to closest EN374 Class (and two additional lower levels (0–5 min) that might be useful when selecting gloves for work operations of very short duration).

Break-through time [min]	EN374 CLASS	Comments
480	6	BTT ≥ 480 min. Normally chemical protection gloves should not be used for more than 480 min.
240	5	BTT = 240–480 min
120	4	BTT = 120–240 min
60	3	BTT = 60–120 min
30	2	BTT = 30–60 min
10	1	BTT = 10–30 min
5	-	BTT = 5–10 min. For short work operations, possibly using disposable gloves.
2	-	BTT = 2–5 min. For very short work operations, possibly using disposable gloves.
0	-	BTT = 0–2 min. Gloves should be replaced upon any splash.
-	-	BTT data not available, contact us for more information.

Warranty limitations and disclaimer use

This information is provided solely as a convenience to help you evaluate our gloves in the end-users particular application. The information provided reflects performance of glove materials under carefully controlled conditions. Ejendals AB assumes no obligation or liability in connection with glove guidance information. It is the responsibility of the purchaser and/or user to determine the level of toxicity of the materials to be handled and to select the proper glove suitable for a particular application.

Break-through-times for a selection of common chemicals

CAS	Material		Nitrile					Nitrile/ PVC	Nitrile				
	Thickness (mm)		0,06	0,10	0,12	0,15	0,19	0,2*	0,21	0,3*	0,38	0,45	0,60
	Chemical Name	%	843 84301	84101 84501	848	858	846 849	71000	184A	7350 7351 7361 7363	186 18601	47A	48
7722-84-1	Hydrogen peroxide	30	120	240	240	240	480	480	480	480	480	480	480
102-71-6	Triethanolamine	100	30	60	60	120	120	120	120	240	240	240	480
1310-73-2	Sodium hydroxide	50	120	240	240	480	480	480	480	480	480	480	480
50-00-0	Formaldehyde	37	120	240	240	240	480	480	480	480	480	480	480
141-43-5	Monoethanolamine	100	60	120	120	120	240	240	240	480	480	480	480
74-89-5	Methylamine	40	120	240	240	480	480	480	480	480	480	480	480
144-62-7	Oxalic acid, saturated solution	99	30	60	60	120	120	120	120	240	240	240	480
7664-38-2	Phosphoric acid	85	30	60	60	120	120	120	120	240	240	240	480
107-21-1	Ethylene glycol	100	30	60	60	120	120	120	120	240	240	240	480
111-30-8	Glutaraldehyde	50	60	120	120	240	240	240	240	480	480	480	480
64-18-6	Formic acid	98	10	30	30	30	60	60	60	120	120	120	120
7664-93-9	Sulphuric acid	96	2	5	5	10	10	10	10	30	60	60	120
7647-01-0	Hydrochloric acid	37	30	60	60	60	120	120	120	120	240	240	240
108-93-0	Cyclohexanol	100	120	120	240	240	240	240	240	480	480	480	480
7697-37-2	Nitric acid	70	10	30	30	60	60	60	60	120	120	120	240
57-55-6	Propylene glycol	100	30	60	120	120	120	120	120	240	480	480	480
1336-21-6	Ammonium hydroxide	100	10	30	30	60	60	60	60	120	120	240	240
110-16-7	Maleic acid	99	30	60	60	120	120	120	120	240	240	240	480
84-74-2	Dibutylphthalate	100	60	60	120	120	120	120	120	240	240	480	480
111-87-5	Octyl alcohol	100	30	60	60	120	120	120	120	240	240	240	480
67-63-0	Isopropanol	100	30	60	60	120	120	120	120	240	240	240	480
68334-30-5	Diesel fuel	100	60	60	120	120	120	120	120	240	240	480	480
64-19-7	Acetic acid, glacial	100	10	30	30	60	60	60	60	120	120	120	240
71-36-3	Butyl alcohol	100	30	60	60	120	120	120	120	240	240	240	480
8052-41-3	Stoddard solvent	100	30	60	120	120	120	120	120	240	480	480	480
108-95-2	Phenol	90	10	30	30	30	60	60	60	60	120	120	120
71-23-8	Propanol	100	30	60	60	120	120	120	120	240	240	240	480
999-97-3	Hexamethyldisilazane	100	30	60	120	120	120	120	120	240	480	480	480
79-21-0	Peracetic acid	40	10	10	30	30	30	30	30	60	60	120	120
590-92-1	Bromopropionic acid	100	2	5	10	10	10	10	10	30	60	60	60
7664-39-3	Hydrofluoric acid	48	10	10	10	10	30	30	30	30	60	60	60
107-98-2	1-Methoxy-2-propanol	100	30	30	60	60	60	60	60	120	120	240	240
8012-95-1	Mineral oil	100	30	60	120	120	120	120	120	240	480	480	480
1120-21-4	n-Undecane	100	30	60	120	120	120	120	120	240	480	480	480
64-17-5	Ethanol	100	10	30	30	60	60	60	60	120	120	120	240
67-68-5	Dimethylsulfoxide	100	10	10	30	30	30	30	30	60	60	120	120
111-76-2	2-Butoxyethanol	100	30	30	60	60	60	60	60	120	240	240	240
540-84-1	Iso-octane	100	30	60	60	120	120	120	120	240	240	240	480
110-54-3	Hexane	100	30	60	60	120	120	120	120	240	240	240	480
8006-61-9	Gasoline	100	30	60	60	120	120	120	120	240	240	240	480
121-44-8	Triethylamine	100	10	30	30	60	60	60	60	120	240	240	480
76-13-1	Freon TF	100	30	30	60	60	60	60	60	120	120	240	240
142-82-5	Heptane	100	30	30	60	60	120	120	120	240	240	240	240
110-80-5	Ethyl glycol	100	10	30	30	30	60	60	60	60	120	120	120
64742-49-0	Naphtha, petroleum, hydrotreated light	100	10	30	30	60	60	120	120	120	240	240	480
79-10-7	Acrylic acid	100	5	10	10	10	10	10	10	30	30	60	60
872-50-4	N-methyl-2-pyrrolidone	100	5	10	10	10	10	10	10	30	30	30	60
1634-04-4	Methyl tert-butyl ether	100	10	30	60	60	60	60	60	120	240	240	240
68308-34-9	Crude oil	100	10	10	10	30	30	60	60	60	120	120	240
8030-30-6	Naphtha	100	10	30	30	60	60	60	60	120	120	240	240
127-18-4	Perchloroethylene	100	30	60	60	60	60	60	60	120	120	240	240
56-23-5	Carbon tetrachloride	100	30	30	60	60	60	60	60	120	120	120	240
67-56-1	Methanol	100	5	10	10	10	30	30	30	30	60	60	60
78-59-1	Isophorone	100	5	10	10	10	10	10	10	30	60	60	60
108-94-1	Cyclohexanone	100	10	10	10	30	30	30	30	60	60	60	60
98-95-3	Nitrobenzene	100	2	5	5	5	10	10	10	10	10	10	30
108-65-6	1-Methoxy-2-propylacetate	100	10	10	10	10	30	30	30	30	60	60	60
111-15-9	Ethylglycol acetate	100	5	10	10	10	10	10	10	30	30	30	60
68-12-2	Dimethylformamide	100	2	2	2	5	5	5	5	10	10	10	10
75-04-7	Ethylamine	100	2	5	5	10	10	10	10	10	10	30	30
96-48-0	Gamma-butyrolactone	100	0	0	0	0	0	2	2	2	5	5	10
107-18-6	Allyl alcohol	100	0	0	0	0	0	2	2	2	5	5	10
109-89-7	Diethylamine	100	2	5	5	5	5	10	10	10	10	10	30
75-05-8	Acetonitrile	100	0	2	2	2	2	5	5	5	5	10	10
110-85-0	Piperazine	100	5	10	10	10	10	10	10	30	30	60	60
67-64-1	Acetone	100	0	0	0	2	2	2	2	2	5	5	5
123-86-4	Butyl acetate	100	5	10	10	10	10	10	10	30	30	30	60
108-10-1	Methyl isobutyl ketone	100	2	5	5	10	10	10	10	10	10	30	30
1330-20-7	Xylene, isomeric mixture	100	5	10	10	10	10	10	10	30	30	30	60
80-62-6	Methyl methacrylate	100	2	2	5	5	5	5	5	10	10	10	10
141-78-6	Ethyl acetate	100	0	2	2	2	5	5	5	5	10	10	10
107-13-1	Acrylonitrile	100	0	0	0	0	0	0	0	2	2	5	10
110-86-1	Pyridine	100	0	0	0	0	2	2	2	5	5	10	10
98-88-4	Benzoyl chloride	100	0	0	0	0	0	2	2	2	5	5	10
96-33-3	Methyl acrylate	100	0	0	0	0	0	2	2	2	5	5	10
78-93-3	Methyl ethyl ketone	100	0	0	2	2	2	2	2	5	5	5	10
100-42-5	Styrene	100	2	5	5	5	10	10	10	10	10	10	30
71-43-2	Benzene	100	2	5	5	5	5	10	10	10	10	10	30
109-60-4	n-Propyl acetate	100	0	0	2	2	2	5	5	5	10	10	10
108-90-7	Monochlorobenzene	100	0	0	0	2	2	2	2	5	10	10	10
79-01-6	Trichloroethylene	100	2	2	2	5	5	5	5	10	10	10	10
108-88-3	Toluene	100	2	2	5	5	5	5	5	10	10	10	10
7719-09-7	Thionyl chloride	100	0	0	0	0	0	2	2	2	5	5	10
109-99-9	Tetrahydrofuran	100	0	0	0	0	0	0	0	2	2	5	10
67-66-3	Chloroform	100	0	0	0	0	2	2	2	2	2	2	5
107-12-0	Propionitrile	100	0	0	0	0	0	2	2	2	5	5	10
110-01-0	Tetrahydrothiophen	100	0	0	0	0	0	2	2	2	5	5	10
75-15-0	Carbon disulfide	100	0	0	0	0	2	2	2	5	5	10	10
75-09-2	Methylene chloride	100	0	0	0	0	0	0	0	0	0	2	2

*Gloves consisting of more than one material. The material mainly responsible for the chemical protection is stated and used for the calculation (as if it was the only material). The thickness stated is estimated from comparisons of BITT data for gloves with the same material (only) and can be considered as an equivalence-thickness (most likely underestimated, and consequently the BITT is also underestimated).

Chemical protection

Break-through-times for a selection of common chemicals

CAS	Material		Latex						Neoprene		Neoprene/Latex	
	Thickness (mm)		0,10	0,33	0,38	0,40	0,5*	0,80	0,12	0,5*	0,68*	0,7*
	Chemical Name	%	833	8145	8140	8150	8160	81000	836 837	494	241	2311 2301
7722-84-1	Hydrogen peroxide	30	480	480	480	480	480	480	60	480	480	480
102-71-6	Triethanolamine	100	240	480	480	480	480	480	60	240	240	240
1310-73-2	Sodium hydroxide	50	120	480	480	480	480	480	60	240	240	240
50-00-0	Formaldehyde	37	60	240	240	240	240	480	120	480	480	480
141-43-5	Monoethanolamine	100	60	120	120	120	240	480	60	240	480	480
74-89-5	Methylamine	40	2	30	30	30	60	120	120	480	480	480
144-62-7	Oxalic acid, saturated solution	99	120	480	480	480	480	480	60	240	480	480
7664-38-2	Phosphoric acid	85	120	480	480	480	480	480	60	240	480	480
107-21-1	Ethylene glycol	100	120	480	480	480	480	480	60	240	480	480
111-30-8	Glutaraldehyde	50	60	120	120	240	240	480	120	480	480	480
64-18-6	Formic acid	98	10	60	60	60	60	120	60	240	240	240
7664-93-9	Sulphuric acid	96	120	480	480	480	480	480	60	240	240	240
7647-01-0	Hydrochloric acid	37	60	120	120	120	240	480	60	240	240	240
108-93-0	Cyclohexanol	100	5	30	30	60	120	240	60	240	240	240
7697-37-2	Nitric acid	70	30	120	120	120	240	480	60	240	240	240
57-55-6	Propylene glycol	100	10	120	120	120	240	480	30	240	240	240
1336-21-6	Ammonium hydroxide	100	10	60	60	60	60	120	60	240	240	240
110-16-7	Maleic acid	99	60	120	240	240	240	480	60	240	480	480
84-74-2	Dibutylphthalate	100	10	60	60	60	120	120	30	120	120	120
111-87-5	Octyl alcohol	100	30	60	120	120	120	240	30	120	120	120
67-63-0	Isopropanol	100	0	10	10	10	30	60	60	240	240	240
68334-30-5	Diesel fuel	100	-	-	-	-	-	-	10	120	120	120
64-19-7	Acetic acid, glacial	100	5	30	30	30	60	120	30	120	240	240
71-36-3	Butyl alcohol	100	2	10	10	30	30	120	30	120	120	120
8052-41-3	Stoddard solvent	100	0	2	2	5	5	10	2	30	60	60
108-95-2	Phenol	90	30	60	60	120	120	240	30	120	240	240
71-23-8	Propanol	100	5	30	30	30	30	60	10	60	60	60
999-97-3	Hexamethyldisilazane	100	0	2	2	5	5	10	0	2	5	5
79-21-0	Peracetic acid	40	0	10	10	10	10	30	60	240	480	480
590-92-1	Bromopropionic acid	100	5	60	60	60	120	480	30	120	240	240
7664-39-3	Hydrofluoric acid	48	10	60	60	60	120	120	30	240	480	480
107-98-2	1-Methoxy-2-propanol	100	5	30	30	30	60	120	30	120	120	120
8012-95-1	Mineral oil	100	-	-	-	-	-	-	-	-	-	-
1120-21-4	n-Undecane	100	-	-	-	-	-	-	-	-	-	-
64-17-5	Ethanol	100	5	10	10	10	30	30	60	240	240	240
67-68-5	Dimethylsulfoxide	100	10	60	60	60	60	120	60	240	240	240
111-76-2	2-Butoxyethanol	100	2	10	10	10	10	30	5	60	60	60
540-84-1	Iso-octane	100	0	5	5	5	10	10	10	60	60	60
110-54-3	Hexane	100	0	2	2	2	2	5	5	30	30	30
8006-61-9	Gasoline	100	0	2	2	2	5	5	5	10	10	10
121-44-8	Triethylamine	100	0	2	2	5	5	10	2	30	60	60
76-13-1	Freon TF	100	0	2	2	5	5	10	30	120	120	120
142-82-5	Heptane	100	0	2	2	2	5	10	10	30	60	60
110-80-5	Ethyl glycol	100	0	10	10	10	10	30	10	120	120	120
64742-49-0	Naphtha, petroleum, hydrotreated light	100	-	-	-	-	-	-	-	-	-	-
79-10-7	Acrylic acid	100	2	10	10	30	30	60	10	120	120	120
872-50-4	N-methyl-2-pyrrolidone	100	2	10	10	30	30	120	10	60	120	120
1634-04-4	Methyl tert-butyl ether	100	0	2	2	2	2	5	0	5	10	10
68308-34-9	Crude oil	100	2	10	10	10	10	10	10	30	60	60
8030-30-6	Naphtha	100	0	2	2	5	5	10	0	2	5	5
127-18-4	Perchloroethylene	100	0	2	2	2	5	5	2	5	10	10
56-23-5	Carbon tetrachloride	100	0	2	2	2	2	5	2	10	10	10
67-56-1	Methanol	100	2	5	5	10	10	10	30	120	240	240
78-59-1	Isophorone	100	0	2	2	5	5	10	10	60	120	120
108-94-1	Cyclohexanone	100	2	5	5	10	10	10	2	10	30	30
98-95-3	Nitrobenzene	100	0	5	5	5	10	30	5	30	30	30
108-65-6	1-Methoxy-2-propylacetate	100	0	2	2	5	5	10	0	2	5	5
111-15-9	Ethylglycol acetate	100	0	5	5	5	10	30	10	30	60	60
68-12-2	Dimethylformamide	100	0	10	10	10	10	60	5	30	30	30
75-04-7	Ethylamine	100	0	2	2	5	5	10	10	30	60	60
96-48-0	Gamma-butyrolactone	100	0	2	2	5	5	10	2	30	60	60
107-18-6	Allyl alcohol	100	0	2	2	5	5	10	0	10	30	30
109-89-7	Diethylamine	100	0	5	5	5	10	10	10	60	60	60
75-05-8	Acetonitrile	100	0	2	2	2	2	5	10	60	60	60
110-85-0	Piperazine	100	0	2	2	5	5	10	0	2	5	5
67-64-1	Acetone	100	2	5	5	5	10	10	2	10	10	10
123-86-4	Butyl acetate	100	0	2	2	2	5	10	2	10	10	10
108-10-1	Methyl isobutyl ketone	100	0	2	2	5	5	10	2	10	10	10
1330-20-7	Xylene, isomeric mixture	100	0	2	2	2	2	5	0	5	10	10
80-62-6	Methyl methacrylate	100	0	2	2	2	5	10	2	5	10	10
141-78-6	Ethyl acetate	100	0	2	2	2	5	10	2	10	10	10
107-13-1	Acrylonitrile	100	0	2	2	5	5	10	2	10	10	10
110-86-1	Pyridine	100	0	2	2	2	5	10	2	10	10	10
98-88-4	Benzoyl chloride	100	0	2	2	5	5	10	2	5	10	10
96-33-3	Methyl acrylate	100	0	2	2	5	5	10	0	5	10	10
78-93-3	Methyl ethyl ketone	100	0	2	2	2	5	10	0	5	5	5
100-42-5	Styrene	100	0	0	0	2	2	10	0	2	5	5
71-43-2	Benzene	100	0	0	0	2	2	10	2	5	10	10
109-60-4	n-Propyl acetate	100	0	2	2	2	5	5	0	5	10	10
108-90-7	Monochlorobenzene	100	0	2	2	5	5	10	0	2	5	5
79-01-6	Trichloroethylene	100	0	2	2	2	5	10	0	2	5	5
108-88-3	Toluene	100	0	0	0	0	2	5	0	5	5	5
7719-09-7	Thionyl chloride	100	0	2	2	5	5	10	0	2	5	5
109-99-9	Tetrahydrofuran	100	0	2	2	2	5	10	0	2	5	5
67-66-3	Chloroform	100	0	2	2	2	5	10	0	2	5	5
107-12-0	Propionitrile	100	0	2	2	5	5	10	-	-	-	-
110-01-0	Tetrahydrothiophen	100	0	2	2	5	5	10	0	2	5	5
75-15-0	Carbon disulfide	100	0	0	0	0	2	2	0	2	2	2
75-09-2	Methylene chloride	100	0	2	2	2	5	10	0	2	5	5

*Gloves consisting of more than one material. The material mainly responsible for the chemical protection is stated and used for the calculation (as if it was the only material). The thickness stated is estimated from comparisons of BTT data for gloves with the same material (only) and can be considered as an equivalence-thickness (most likely underestimated, and consequently the BTT is also underestimated).

Chemical protection

Break-through-times for a selection of common chemicals

CAS	Material		PVC								Butyl
	Thickness (mm)		0,08	0,10	0,25	0,3*	0,4*	0,40	0,55	0,7*	0,34
	Chemical Name	%	819A	825A	8190	12910 12930 12935 12945	7390	8180	8170 8175	10PG	16
7722-84-1	Hydrogen peroxide	30	60	60	240	240	240	240	480	480	480
102-71-6	Triethanolamine	100	10	30	120	120	120	120	240	240	480
1310-73-2	Sodium hydroxide	50	60	60	240	240	480	240	480	480	480
50-00-0	Formaldehyde	37	10	30	120	240	480	240	480	480	480
141-43-5	Monoethanolamine	100	120	120	480	480	480	480	480	480	240
74-89-5	Methylamine	40	10	10	30	30	60	60	120	120	480
144-62-7	Oxalic acid, saturated solution	99	10	30	120	120	240	240	480	480	480
7664-38-2	Phosphoric acid	85	60	60	120	240	240	240	480	480	480
107-21-1	Ethylene glycol	100	10	10	120	120	240	240	480	480	480
111-30-8	Glutaraldehyde	50	60	60	120	120	240	240	240	480	480
64-18-6	Formic acid	98	120	120	480	480	480	480	480	480	60
7664-93-9	Sulphuric acid	96	30	30	120	120	120	120	240	240	480
7647-01-0	Hydrochloric acid	37	60	60	240	240	240	240	480	480	240
108-93-0	Cyclohexanol	100	10	10	60	60	60	60	120	120	480
7697-37-2	Nitric acid	70	60	60	240	240	240	240	480	480	480
57-55-6	Propylene glycol	100	-	-	-	-	-	-	-	-	480
1336-21-6	Ammonium hydroxide	100	60	60	240	240	240	240	480	480	480
110-16-7	Maleic acid	99	10	10	30	60	60	60	120	120	480
84-74-2	Dibutylphthalate	100	0	2	10	10	30	30	60	60	480
111-87-5	Octyl alcohol	100	10	10	30	60	60	60	120	120	480
67-63-0	Isopropanol	100	10	10	30	30	60	30	60	60	480
68334-30-5	Diesel fuel	100	2	5	10	30	30	30	60	120	60
64-19-7	Acetic acid, glacial	100	10	30	60	60	120	60	120	120	480
71-36-3	Butyl alcohol	100	0	0	10	10	10	10	30	60	480
8052-41-3	Stoddard solvent	100	0	2	10	10	10	10	30	60	5
108-95-2	Phenol	90	5	5	10	10	30	10	30	30	480
71-23-8	Propanol	100	5	10	10	30	30	30	30	60	480
999-97-3	Hexamethyldisilazane	100	0	0	0	2	2	2	5	10	240
79-21-0	Peracetic acid	40	0	0	5	5	10	10	10	10	480
590-92-1	Bromopropionic acid	100	0	0	0	2	2	2	5	10	480
7664-39-3	Hydrofluoric acid	48	5	5	10	10	10	10	30	30	240
107-98-2	1-Methoxy-2-propanol	100	5	5	10	10	10	10	30	30	240
8012-95-1	Mineral oil	100	-	-	-	-	-	-	-	-	-
1120-21-4	n-Undecane	100	-	-	-	-	-	-	-	-	-
64-17-5	Ethanol	100	0	0	5	10	10	10	30	60	240
67-68-5	Dimethylsulfoxide	100	0	2	5	10	10	10	10	10	240
111-76-2	2-Butoxyethanol	100	0	0	10	10	30	10	30	60	240
540-84-1	Iso-octane	100	0	2	5	10	10	10	10	30	10
110-54-3	Hexane	100	0	0	0	2	2	2	5	10	10
8006-61-9	Gasoline	100	0	0	0	2	2	2	5	5	5
121-44-8	Triethylamine	100	0	0	2	2	5	2	5	10	5
76-13-1	Freon TF	100	0	0	2	2	5	5	10	10	60
142-82-5	Heptane	100	0	0	2	2	5	2	10	10	2
110-80-5	Ethyl glycol	100	0	0	2	5	10	5	10	30	480
64742-49-0	Naphtha, petroleum, hydrotreated light	100	-	-	-	-	-	-	-	-	-
79-10-7	Acrylic acid	100	0	0	2	5	5	5	10	10	480
872-50-4	N-methyl-2-pyrrolidone	100	0	0	2	5	10	5	10	30	480
1634-04-4	Methyl tert-butyl ether	100	0	0	0	2	2	2	5	10	10
68308-34-9	Crude oil	100	10	10	30	30	60	30	60	60	-
8030-30-6	Naphtha	100	0	0	2	2	2	2	5	10	5
127-18-4	Perchloroethylene	100	0	0	0	0	2	2	5	5	10
56-23-5	Carbon tetrachloride	100	0	0	0	2	2	2	5	10	10
67-56-1	Methanol	100	0	0	0	2	2	2	5	10	240
78-59-1	Isophorone	100	0	0	2	5	5	5	10	10	480
108-94-1	Cyclohexanone	100	0	0	0	2	2	2	5	10	480
98-95-3	Nitrobenzene	100	5	5	10	10	30	30	30	60	480
108-65-6	1-Methoxy-2-propylacetate	100	0	0	0	2	2	2	5	10	480
111-15-9	Ethylglycol acetate	100	0	0	2	5	5	5	10	10	240
68-12-2	Dimethylformamide	100	0	0	2	5	5	5	10	10	240
75-04-7	Ethylamine	100	0	0	0	2	2	2	5	10	240
96-48-0	Gamma-butyrolactone	100	0	0	0	2	2	2	5	10	480
107-18-6	Allyl alcohol	100	0	0	0	2	2	2	5	10	240
109-89-7	Diethylamine	100	2	2	5	5	10	5	10	10	10
75-05-8	Acetonitrile	100	2	2	5	5	10	10	10	10	120
110-85-0	Piperazine	100	0	0	2	2	2	2	5	10	30
67-64-1	Acetone	100	0	0	0	0	2	2	5	5	240
123-86-4	Butyl acetate	100	0	0	0	0	2	2	2	5	60
108-10-1	Methyl isobutyl ketone	100	0	0	0	0	2	0	2	5	120
1330-20-7	Xylene, isomeric mixture	100	0	0	0	2	2	2	5	10	10
80-62-6	Methyl methacrylate	100	0	0	0	2	2	2	5	10	60
141-78-6	Ethyl acetate	100	0	0	0	0	2	2	2	5	120
107-13-1	Acrylonitrile	100	0	0	2	2	2	2	5	5	120
110-86-1	Pyridine	100	0	0	0	2	2	2	5	10	60
98-88-4	Benzoyl chloride	100	0	0	0	2	2	2	5	10	120
96-33-3	Methyl acrylate	100	0	0	0	2	2	2	5	10	120
78-93-3	Methyl ethyl ketone	100	0	0	0	2	2	2	5	5	120
100-42-5	Styrene	100	0	0	2	2	5	2	5	10	5
71-43-2	Benzene	100	0	0	2	2	2	2	5	10	10
109-60-4	n-Propyl acetate	100	0	0	0	2	2	2	5	10	30
108-90-7	Monochlorobenzene	100	0	0	0	2	2	2	5	10	5
79-01-6	Trichloroethylene	100	0	0	0	0	0	0	2	2	10
108-88-3	Toluene	100	0	0	0	0	2	2	5	5	10
7719-09-7	Thionyl chloride	100	0	0	0	2	2	2	5	10	-
109-99-9	Tetrahydrofuran	100	0	0	0	0	2	2	5	5	10
67-66-3	Chloroform	100	0	0	0	2	5	2	2	5	5
107-12-0	Propionitrile	100	0	0	0	2	2	2	5	10	5
110-01-0	Tetrahydrothiophen	100	-	-	-	-	-	-	-	-	-
75-15-0	Carbon disulfide	100	0	0	0	2	2	2	5	5	5
75-09-2	Methylene chloride	100	0	0	0	0	0	0	2	2	5

*Gloves consisting of more than one material. The material mainly responsible for the chemical protection is stated and used for the calculation (as if it was the only material). The thickness stated is estimated from comparisons of BTT data for gloves with the same material (only) and can be considered as an equivalence-thickness (most likely underestimated, and consequently the BTT is also underestimated).

Chemical protection