

Mapa Chemical

Vital 117

		Breakthrough	Permeation		Degradatio	
Chemical Product	CAS #	time (minutes)	level	Standard	level	Rating
2-Butoxyethanol (Butyl Cellusolve) 99%	111-76-2	21	1	ASTM F739	4	+
2-Ethoxyethanol (Cellosolve) 99%	110-80-5	27	1	ASTM F739	4	+
2-Ethoxyethyl acetate (Cellosolve Acetate) 99%	111-15-9	15	1	ASTM F739	3	=
2-Propanol (Isopropanol) 99%	67-63-0	15	1	EN 374-3:2003	4	+
2-Propanol (Isopropanol) 99%	67-63-0	36	2	ASTM F739	4	+
Acetaldehyde 99%	75-07-0	5	0	ASTM F739	4	=
Acetic acid 10%	64-19-7	NT	NT		4	NA
Acetic acid 50%	64-19-7	254	5	ASTM F739	4	++
Acetic acid 99%	64-19-7	8	0	EN 374-3:2003	4	=
Acetic acid 99%	64-19-7	34	2	ASTM F739	4	+
Acetone 99%	67-64-1	7	0	ASTM F739	3	=
Ammonium hydroxide solution 29%	1336-21-6	16	1	ASTM F739	4	+
Aniline 99%	62-53-3	67	3	ASTM F739	4	++
Dimethylformamide 99%	68-12-2	12	1	EN 374-3:2003	4	+
Dimethylformamide 99%	68-12-2	48	2	ASTM F739	4	+
Dimethylsulfoxide 99%	67-68-5	216	4	ASTM F739	4	++
Ethanol 95%	64-17-5	14	1	EN 374-3:2003	4	+
Ethanol 95%	64-17-5	21	1	ASTM F739	4	+
Ethylene glycol 99%	107-21-1	480	6	ASTM F739	4	++
Formaldehyde 30%	50-00-0	NT	NT		4	NA
Formaldehyde 37%	50-00-0	480	6	EN 16523-1:2015	4	++
Formaldehyde 37%	50-00-0	480	6	ASTM F739	4	++
Glutaraldehyde 50%	111-30-8	NT	NT		4	NA
Hydrazine 35%	302-01-2	NT	NT		4	NA
Hydrazine 70%	302-01-2	115	3	ASTM F739	4	++

*not normalized result

Overall Chemical Protection Rating

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- Used for high chemical exposure or chemical immersion, limited to breakthrough time based on a working day.
- Used for **repeated chemical contact**, limited to total chemical exposure i.e. : accumulative breakthrough time based on a working day.
- **Splash protection only**, on chemical exposure the gloves should be discarded and new gloves worn as soon as possible.
- Not recommended, these gloves are deemed unsuitable for work with this chemical.
- NT : Not tested
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Hydrazine 98% 302-01-2 NT NT 4 Hydrochloric acid 10% 7647-01-0 480 6 EN 374-3:2003 4 Hydrochloric acid 35% 7647-01-0 480 6 EN 374-3:2003 4 Hydrochloric acid 37% 7647-01-0 43 2 ASTM F739 4 Hydrogen peroxide 30% 7722-84-1 480 6 EN 16523-1:2015 4 m-Cresol 97% 108-39-4 145 4 ASTM F739 4 Methanol 85% 67-56-1 NT NT NT 4 Methanol 99% 67-56-1 7 0 EN 374-3:2003 4 Methyl Ethyl Ketone (2-Butanone) 99% 78-93-3 2 0 EN 374-3:2003 2 Methyl Ethyl Ketone (2-Butanone) 99% 78-93-3 6 0 ASTM F739 2	NA ++ ++ +
Hydrochloric acid 35% 7647-01-0 480 6 EN 374-3:2003 4 Hydrochloric acid 37% 7647-01-0 43 2 ASTM F739 4 Hydrogen peroxide 30% 7722-84-1 480 6 EN 16523-1:2015 4 m-Cresol 97% 108-39-4 145 4 ASTM F739 4 Methanol 85% 67-56-1 NT NT NT 4 Methanol 99% 67-56-1 7 0 EN 374-3:2003 4 Methyl Ethyl Ketone (2-Butanone) 78-93-3 2 0 EN 374-3:2003 2 Methyl Ethyl Ketone (2-Butanone) 78-93-3 6 0 ASTM F739 2	++
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Hydrogen peroxide 30% 7722-84-1 480 6 EN 16523-1:2015 4 m-Cresol 97% 108-39-4 145 4 ASTM F739 4 Methanol 85% 67-56-1 NT NT NT 4 Methanol 99% 67-56-1 7 0 EN 374-3:2003 4 Methyl Ethyl Ketone (2-Butanone) 78-93-3 2 0 EN 374-3:2003 2 Methyl Ethyl Ketone (2-Butanone) 78-93-3 6 0 ASTM F739 2	
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Methyl Ethyl Ketone (2-Butanone) 99% 78-93-3 2 0 EN 374-3:2003 2 Methyl Ethyl Ketone (2-Butanone) 78-93-3 6 0 ASTM F739 2	=
99% 76-93-3 2 0 EN 374-3:2003 2 Methyl Ethyl Ketone (2-Butanone) 78-93-3 6 0 ASTM F739 2	+
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	-
N-methyl-2-Pyrrolidone 99% 872-50-4 17 1 EN 374-3:2003 4	+
N-N dimethyl acetamide 30% 127-19-5 NT NT 4	NA
N-N dimethyl acetamide 99% 127-19-5 39 2 ASTM F739 4	+
Nitric acid 10% 7697-37-2 480 6 ASTM F739 4	++
Nitric acid 20% 7697-37-2 480 6 EN 16523-1:2015 4	++
Nitric acid 20% 7697-37-2 480 6 ASTM F739 4	++
Nitric acid 40% 7697-37-2 480 6 ASTM F739 4	++
Nitric acid 50% 7697-37-2 480 6 ASTM F739 4	++
Nitric acid 65% 7697-37-2 97 3 EN 16523-1:2015 NT	NA
Phenol 85% 108-95-2 77 3 ASTM F739 4	++
Phosphoric acid 75% 7664-38-2 480 6 ASTM F739 4	++
Phosphoric acid 85% 7664-38-2 480 6 ASTM F739 4	
Potassium Hydroxide 50% 1310-58-3 480 6 ASTM F739 4	++
Skydrol LD-4 mixture NA 60 2 ASTM F739 NT	++

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Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradatio level	Rating
Sodium hydroxide 20%	1310-73-2	480	6	EN 374-3:2003	4	++
Sodium hydroxide 20%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 40%	1310-73-2	480	6	EN 16523-1:2015	4	++
Sodium hydroxide 40%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 50%	1310-73-2	480	6	ASTM F739	4	++
Styrene 99%	100-42-5	1	0	EN 374-3:2003	NT	NA
Sulfuric acid 10%	7664-93-9	480	6	ASTM F739	4	++
Sulfuric acid 40%	7664-93-9	480	6	ASTM F739	4	++
Sulfuric acid 50%	7664-93-9	480	6	ASTM F739	4	++
Toluene Diisocyanate (TDI) 80%	584-84-9	480	6	ASTM F739	3	++
Triethanolamine 98%	102-71-6	480	6	ASTM F739	4	++

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