Mapa Chemical

Ultranitril 381

薬品名　濃度%	CAS #	透過正結果（分）	Permeation level	Standard	Degradation level	Rating
トリクロロエタン99%	71-55-6	68	3	ASTM F739	1	-
トリクロロトリフルオロエタン99%	76-13-1	480	6	ASTM F739	4	++
1，２－ジクロロエタン99%	107-06-2	3	0	ASTM F739	NT	NA
ヒドロキシエチルブチルエーテル99%	111-76-2	372	5	ASTM F739	4	++
酢酸２－エトキシエチル（別名エチレングリコールモノエチルエーテルアセテート）99%	111-15-9	67	3	ASTM F739	2	+
プロピルアルコール99%	67-63-0	480	6	ASTM F739	4	++
アセトアルデヒド99%	75-07-0	3	0	ASTM F739	NT	NA
酢酸60%	64-19-7	480	6	EN 16523-1:2015	NT	NA
酢酸99%	64-19-7	91	3	ASTM F739	2	+
アセトン99%	67-64-1	3	0	ASTM F739	1	-
アセトニトリル99%	75-05-8	10	0	EN 374-3:2003	NT	NA
アセチルクロライド98%	75-36-5	1	0	ASTM F739	NT	NA
アクリル酸99%	79-10-7	55	2	EN 16523-1:2015	NT	NA
水酸化アンモニウム水25%	1336-21-6	217	4	EN 16523-1:2015	4	++
水酸化アンモニウム水29%	1336-21-6	435	5	ASTM F739	4	++
アニリン99%	62-53-3	89	3	ASTM F739	1	-
ベンゼン99%	71-43-2	6	0	ASTM F739	2	-
モノブロモベンゼン99%	108-86-1	11	1	EN 374-3:2003	NT	NA
酢酸ブチル99%	123-86-4	31	2	ASTM F739	2	=
二硫化炭素99%	75-15-0	4	0	ASTM F739	NT	NA
四塩化炭素（テトラクロロメタン）99%	56-23-5	114	3	ASTM F739	4	++
クロム酸アンモニウム50%	7738-94-5	250	5	ASTM F739	4	++
分枝アルキルベンゼン（C＝３～３６）98%	98-82-8	166	4	ASTM F739	3	++
石油留分の熱分解によりエチレンを製造する工程のベンゼン－トルエン－キシレン留分の軽質抽出残分99%	110-82-7	480	6	ASTM F739	4	++
ジクロロメタン（別名塩化メチレン）99%	75-09-2	1	0	ASTM F739	NT	NA

*not normalized result

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N－ヒドロキシエチル－N－［2－ヒドロキシアルキル（又はアルケニル）］アミン97%	111-42-2	480	6	ASTM F739	4	++
N，N－ジメチルホルムアミド99%	68-12-2	6	0	EN 374-3:2003	1	-
ジメチルスルホキシド99%	67-68-5	157	4	ASTM F739	3	++
エタノール95%	64-17-5	218	4	ASTM F739	4	++
エタノール95%	64-17-5	288	5	ASTM F739	4	++
ジエチルエーテル99%	60-29-7	41	2	ASTM F739	4	+
酢酸エチル99%	141-78-6	11	0	EN 16523-1:2015	1	-
エチルベンゼン99%	100-41-4	28	1	ASTM F739	2	=
エチレングリコール99%	107-21-1	480	6	ASTM F739	4	++
ホルムアルデヒド37%	50-00-0	480	6	ASTM F739	4	++
ギ酸96%	64-18-6	28	1	EN 16523-1:2015	NT	NA
石油留分又は残油の水素化精製又は分解により得られる軽油	68476-34-6	480	6	EN 374-3:2003	3	++
フルフラール99%	98-01-1	34	2	ASTM F739	1	-
ヘキサメチレン＝ジイソシアネート99%	822-06-0	NT	NT		2	NA
ヒドラジン99.9%	302-01-2	480	6	ASTM F739	4	++
ヒドラジン35%	302-01-2	480	6	ASTM F739	4	++
塩酸70%	7647-01-0	480	6	ASTM F739	4	++
塩酸10%	7647-01-0	NT	NT		4	NA
塩酸35%	7647-01-0	480	6	ASTM F739	4	++
過酸化水素37%	7722-84-1	480	6	EN 16523-1:2015	4	++
ブチルアルコール30%	78-83-1	480	6	ASTM F739	4	++
モノ又はジアルキル（C＝1～2）スチレン99%	8008-20-6	480	6	ASTM F739	4	++
クレゾール	108-39-4	309	5	ASTM F739	1	-
ポリオキシメチレングリコール　モノメチルエーテル97%	67-56-1	NT	NT		4	NA
ポリオキシメチレングリコール　モノメチルエーテル85%	67-56-1	72	3	ASTM F739	3	++

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メチルエチルケトン99%	78-93-3	3	0	ASTM F739	1	-
メチルイソブチルケトン99%	108-10-1	25	1	ASTM F739	2	=
ヘプタン99%	142-82-5	480	6	ASTM F739	4	++
n－ヘキサン99%	110-54-3	480	6	ASTM F739	4	++
N，N－ジメチルアセトアミド95%	127-19-5	15	1	ASTM F739	2	=
ナフサ	8030-30-6	480	6	ASTM F739	4	++
石油エーテル（VM&Pナフサ	8032-32-4	480	6	ASTM F739	4	++
重質ナフサ	64742-48-9	480	6	EN 374-3:2003	4	++
硝酸50%	7697-37-2	344	5	ASTM F739	4	++
硝酸50%	7697-37-2	42	2	EN 16523-1:2015	3	+
ニトロベンゼン65%	98-95-3	42	2	ASTM F739	1	-
フェノール85%	108-95-2	191	4	ASTM F739	3	++
リン酸75%	7664-38-2	480	6	ASTM F739	4	++
リン酸85%	7664-38-2	480	6	ASTM F739	4	++
三塩化リン98%	7719-12-2	16	1	ASTM F739	1	-
フッ化カリウム40%	7789-23-3	480	6	ASTM F739	4	++
水酸化カリウム50%	1310-58-3	480	6	ASTM F739	4	++
1，2－エポキシプロパン（別名酸化プロピレン）99%	75-56-9	2	0	ASTM F739	NT	NA
水酸化ナトリウム20%	1310-73-2	480	6	ASTM F739	4	++
水酸化ナトリウム40%	1310-73-2	480	6	ASTM F739	4	++
水酸化ナトリウム50%	1310-73-2	480	6	ASTM F739	4	++
使用済みの酸の混合物	NA	480	6	ASTM F739	NT	NA
スチレン99%	100-42-5	7	0	ASTM F739	1	-
硫酸10%	7664-93-9	480	6	ASTM F739	4	++
硫酸40%	7664-93-9	480	6	ASTM F739	4	++

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硫酸50%	7664-93-9	480	6	ASTM F739	4	++
硫酸96%	7664-93-9	104	3	EN 16523-1:2015	1	-
ｔｅｒｔ－ブチル＝メチル＝エーテル98%	1634-04-4	452	5	ASTM F739	4	++
ｔｅｒｔ－ブチル＝ヒドロペルオキシド70%	75-91-2	208	4	ASTM F739	4	++
テトラクロルエチレン99%	127-18-4	183	4	ASTM F739	3	++
トルエン99%	108-88-3	15	1	ASTM F739	2	=
トリクロロエチレン99%	79-01-6	4	0	EN 374-3:2003	1	-
トリエタノールアミン98%	102-71-6	480	6	ASTM F739	4	++
トリエタノールアミン99.4%	102-71-6	NT	NT		4	NA
テレビン油	8006-64-2	480	6	ASTM F739	4	++
ガソリン100%	8006-61-9	262	5	EN 16523-1:2015	NT	NA
ガソリン	8006-61-9	453	5	ASTM F739	4	++
キシレン99%	1330-20-7	42	2	ASTM F739	2	=

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Mapa Chemical

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Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradation level	Rating
1,1,1-Trichloroethane 99%	71-55-6	68	3	ASTM F739	1	-
1,1,2-Trichlorotrifluoroethane (Freon TF or Freon 113) 99%	76-13-1	480	6	ASTM F739	4	++
1,2 - dichloroethane 99%	107-06-2	3	0	ASTM F739	NT	NA
2-Butoxyethanol (Butyl Cellusolve) 99%	111-76-2	372	5	ASTM F739	4	++
2-Ethoxyethyl acetate (Cellosolve Acetate) 99%	111-15-9	67	3	ASTM F739	2	+
2-Propanol (Isopropanol) 99%	67-63-0	480	6	ASTM F739	4	++
Acetaldehyde 99%	75-07-0	3	0	ASTM F739	NT	NA
Acetic acid 60%	64-19-7	480	6	EN 16523-1:2015	NT	NA
Acetic acid 99%	64-19-7	91	3	ASTM F739	2	+
Acetone 99%	67-64-1	3	0	ASTM F739	1	-
Acetonitrile 99%	75-05-8	10	0	EN 374-3:2003	NT	NA
Acetyl Chloride 98%	75-36-5	1	0	ASTM F739	NT	NA
Acrylic acid 99%	79-10-7	55	2	EN 16523-1:2015	NT	NA
Ammonium hydroxide solution 25%	1336-21-6	217	4	EN 16523-1:2015	4	++
Ammonium hydroxide solution 29%	1336-21-6	435	5	ASTM F739	4	++
Aniline 99%	62-53-3	89	3	ASTM F739	1	-
Benzene 99%	71-43-2	6	0	ASTM F739	2	-
Bromobenzene 99%	108-86-1	11	1	EN 374-3:2003	NT	NA
Butyl Acetate 99%	123-86-4	31	2	ASTM F739	2	=
Carbon disulfide 99%	75-15-0	4	0	ASTM F739	NT	NA
Carbon Tetrachloride 99%	56-23-5	114	3	ASTM F739	4	++
Chromic Acid 50%	7738-94-5	250	5	ASTM F739	4	++
Cumene 98%	98-82-8	166	4	ASTM F739	3	++
Cyclohexane 99%	110-82-7	480	6	ASTM F739	4	++
Dichloromethane (Methylene Chloride) 99%	75-09-2	1	0	ASTM F739	NT	NA

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Diethanolamine 97%	111-42-2	480	6	ASTM F739	4	++
Dimethylformamide 99%	68-12-2	6	0	EN 374-3:2003	1	-
Dimethylsulfoxide 99%	67-68-5	157	4	ASTM F739	3	++
Ethanol 95%	64-17-5	218	4	ASTM F739	4	++
Ethanol 95%	64-17-5	288	5	ASTM F739	4	++
Ether (Diethyl Ether) 99%	60-29-7	41	2	ASTM F739	4	+
Ethyl acetate 99%	141-78-6	11	0	EN 16523-1:2015	1	-
Ethyl benzene 99%	100-41-4	28	1	ASTM F739	2	=
Ethylene glycol 99%	107-21-1	480	6	ASTM F739	4	++
Formaldehyde 37%	50-00-0	480	6	ASTM F739	4	++
Formic Acid 96%	64-18-6	28	1	EN 16523-1:2015	NT	NA
Fuel oils mixture	68476-34-6	480	6	EN 374-3:2003	3	++
Furfural 99%	98-01-1	34	2	ASTM F739	1	-
Hexamethylene Diisocyanate (1,6 - Diisocyanatohexane) 99,9%	822-06-0	NT	NT		2	NA
Hydrazine 35%	302-01-2	480	6	ASTM F739	4	++
Hydrazine 70%	302-01-2	480	6	ASTM F739	4	++
Hydrochloric acid 10%	7647-01-0	480	6	ASTM F739	4	++
Hydrochloric acid 35%	7647-01-0	NT	NT		4	NA
Hydrochloric acid 37%	7647-01-0	480	6	ASTM F739	4	++
Hydrogen peroxide 30%	7722-84-1	480	6	EN 16523-1:2015	4	++
Isobutyl alcohol 99%	78-83-1	480	6	ASTM F739	4	++
Kerosene mixture	8008-20-6	480	6	ASTM F739	4	++
m-Cresol 97%	108-39-4	309	5	ASTM F739	1	-
Methanol 85%	67-56-1	NT	NT		4	NA
Methanol 99%	67-56-1	72	3	ASTM F739	3	++

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Mapa Chemical

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Methyl Ethyl Ketone (2-Butanone) 99%	78-93-3	3	0	ASTM F739	1	-
Methylisobutylketone 99%	108-10-1	25	1	ASTM F739	2	=
n-Heptane 99%	142-82-5	480	6	ASTM F739	4	++
n-hexane 95%	110-54-3	480	6	ASTM F739	4	++
N-N dimethyl acetamide 99%	127-19-5	15	1	ASTM F739	2	=
Naphtha mixture	8030-30-6	480	6	ASTM F739	4	++
Naphtha VM&P mixture	8032-32-4	480	6	ASTM F739	4	++
Naphtha, Hydrotreated Heavy mixture	64742-48-9	480	6	EN 374-3:2003	4	++
Nitric acid 50%	7697-37-2	344	5	ASTM F739	4	++
Nitric acid 65%	7697-37-2	42	2	EN 16523-1:2015	3	+
Nitrobenzene 99%	98-95-3	42	2	ASTM F739	1	-
Phenol 85%	108-95-2	191	4	ASTM F739	3	++
Phosphoric acid 75%	7664-38-2	480	6	ASTM F739	4	++
Phosphoric acid 85%	7664-38-2	480	6	ASTM F739	4	++
Phosphorous Trichloride 98%	7719-12-2	16	1	ASTM F739	1	-
Potassium Fluoride 40%	7789-23-3	480	6	ASTM F739	4	++
Potassium Hydroxide 50%	1310-58-3	480	6	ASTM F739	4	++
Propylene Oxide 99%	75-56-9	2	0	ASTM F739	NT	NA
Sodium hydroxide 20%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 40%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 50%	1310-73-2	480	6	ASTM F739	4	++
Spent Acid mixture	NA	480	6	ASTM F739	NT	NA
Styrene 99%	100-42-5	7	0	ASTM F739	1	-
Sulfuric acid 10%	7664-93-9	480	6	ASTM F739	4	++
Sulfuric acid 40%	7664-93-9	480	6	ASTM F739	4	++

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Mapa Chemical

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Sulfuric acid 50%	7664-93-9	480	6	ASTM F739	4	++
Sulfuric acid 96%	7664-93-9	104	3	EN 16523-1:2015	1	-
t-Butyl Methyl Ether 98%	1634-04-4	452	5	ASTM F739	4	++
tert-Butyl Hydroperoxide 70%	75-91-2	208	4	ASTM F739	4	++
Tetrachloroethylene (Perchloroethylene) 99%	127-18-4	183	4	ASTM F739	3	++
Toluene 99%	108-88-3	15	1	ASTM F739	2	=
Trichloroethylene 99%	79-01-6	4	0	EN 374-3:2003	1	-
Triethanolamine 98%	102-71-6	480	6	ASTM F739	4	++
Triethanolamine 99,4%	102-71-6	NT	NT		4	NA
Turpentine mixture	8006-64-2	480	6	ASTM F739	4	++
Unleaded gasoline 100%	8006-61-9	262	5	EN 16523-1:2015	NT	NA
Unleaded gasoline mixture	8006-61-9	453	5	ASTM F739	4	++
Xylene 99%	1330-20-7	42	2	ASTM F739	2	=

*not normalized result

OVERALL CHEMICAL PROTECTION RATING

Protection rating is determined by taking into account the effects of both permeation and degradation in an attempt to provide users with an overall protection guideline when using our glove products against specific chemicals.

- 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
- NA: "Not applicable" because not fully tested (only degradation OR permeation results)

The chemical test data and overall chemical protection rating should not be used as the absolute basis for glove selection. Actual in-use conditions may vary glove performance from the controlled conditions of laboratory tests. Factors other than chemical contact time

MAPA PROFESSIONAL
Mapa Professional
Défense Ouest - 420, rue d'Estienne d'Orves - 92705 Colombes Cedex - France
Tel: (33) 1 49 64 22 00 - Fax: (33) 1 49 64 24 29
www.mapa-pro.com