



Recommendation On Chemical Resistance For VWR Nitrile gloves

VWR Catalog No.	Article Description	Size
112-2371	VWR Nitrile Gloves Disposable, Non Sterile, Powder Free	S
112-2372	VWR Nitrile Gloves Disposable, Non Sterile, Powder Free	M
112-2373	VWR Nitrile Gloves Disposable, Non Sterile, Powder Free	L
112-3101	VWR Nitrile Gloves Disposable, Non Sterile, Powder Free	XL
112-2765	VWR Nitrile Light Gloves Disposable, 240mm, Non Sterile, Powder Free	XS
112-2754	VWR Nitrile Light Gloves Disposable, 240mm, Non Sterile, Powder Free	S
112-2755	VWR Nitrile Light Gloves Disposable, 240mm, Non Sterile, Powder Free	M
112-2756	VWR Nitrile Light Gloves Disposable, 240mm, Non Sterile, Powder Free	L
112-2757	VWR Nitrile Light Gloves Disposable, 240mm, Non Sterile, Powder Free	XL
112-4193	VWR Nitrile Extra Light Gloves Disposable, Non Sterile, Powder Free	XS
112-4194	VWR Nitrile Extra Light Gloves Disposable, Non Sterile, Powder Free	S
112-4195	VWR Nitrile Extra Light Gloves Disposable, Non Sterile, Powder Free	M
112-4196	VWR Nitrile Extra Light Gloves Disposable, Non Sterile, Powder Free	L
112-4197	VWR Nitrile Extra Light Gloves Disposable, Non Sterile, Powder Free	XL
112-2766	VWR Nitrile Light Gloves Disposable, 300mm, Non Sterile, Powder Free	XS
112-2767	VWR Nitrile Light Gloves Disposable, 300mm, Non Sterile, Powder Free	S
112-2768	VWR Nitrile Light Gloves Disposable, 300mm, Non Sterile, Powder Free	M
112-2769	VWR Nitrile Light Gloves Disposable, 300mm, Non Sterile, Powder Free	L
112-2770	VWR Nitrile Light Gloves Disposable, 300mm, Non Sterile, Powder Free	XL
112-4511	VWR Nitrile White Gloves Disposable, Non Sterile, Powder Free	XS
112-4512	VWR Nitrile White Gloves Disposable, Non Sterile, Powder Free	S
112-4513	VWR Nitrile White Gloves Disposable, Non Sterile, Powder Free	M
112-4514	VWR Nitrile White Gloves Disposable, Non Sterile, Powder Free	L
112-4515	VWR Nitrile White Gloves Disposable, Non Sterile, Powder Free	XL

Below protective gloves have been tested in accordance with EN 374-3:2003 "Determination of resistance to permeation by chemicals" and EN 16523-1:2015 "Determination of material resistance to permeation by chemicals" and achieve following test results.



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Chemical (synonyms)	CAS- Number	VWR Nitrile	VWR Nitrile light, 240mm	VWR Nitrile light, 300mm	VWR Nitrile extra light	VWR Nitrile white
Acetic acid (10%)	64-19-7	n/a	Level 5	Level 5	Level 3	Level 3
Acetone (2-propanone, methyl ketone)	67-64-1	X	X	X	X	X
Acetonitrile (cyanomethane, ethyl nitrile)	75-05-8	X	X	X	X	X
Acryl amide (40%)	79-06-1	Level 6	Level 6	Level 6	Level 6	Level 6
Ammonium hydroxide (25 %)	1336-21-6	Level 1	Level 1	Level 1	Level 1	Level 1
Benzalconiumchloride liquid (Quats)	63449-41-2	n/a	n/a	n/a	n/a	n/a
Chlorhexidindigluconat (0,5 %)	18472-51-0	n/a	n/a	n/a	Level 6	Level 6
Chloroform (trichlormethan)	67-66-3	X	X	X	X	X
Dichlormethan (Methylendichlorid, Freon 30)	75-09-2	X	X	X	X	X
Diethyl amine (DEA)	109-89-7	X	X	X	X	X
Diethyl ether (diethyloxid, ethoxyethane)	60-29-7	X	X	X	X	X
Dimethylsulfoxid DMSO (deltan, demasorb)	67-68-5	X	X	X	X	X
Ethanol (10%) (ethyl alcohol)	64-17-5	n/a	n/a	n/a	n/a	n/a
Ethanol (20%) (ethyl alcohol)	64-17-5	Level 6	Level 6	Level 6	Level 1	Level 1
Ethanol (70%) (ethyl alcohol)	64-17-5	Level 1	A	A	X	X
Ethidium bromide (1%) (homidium bromide)	1239-45-8	Level 6	Level 6	Level 6	Level 6	Level 6
Ethyl acetate (Aceto acid ether)	141-78-6	A	X	X	X	X
Fentanyl Citrate Inj. (100µg/2ml)	n/a	n/a	Level 5	n/a	Level 5	n/a
Formaldehyd (37%) with Methanol (10%)	50-00-0	Level 6	Level 6	Level 6	Level 6	Level 6
Gasoline (Petrol, heavy, 150 - 190°C)	8032-32-4	X	X	X	X	X
Glutaraldehyde (5%) (Pentan-1,5- dial, Glutaral)	111-30-8	Level 6	Level 6	Level 6	Level 6	Level 6
Heptane - n	142-82-5	A	X	X	X	X
Hexane - n	110-54-3	A	A	A	X	X



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Hydrochloric acid (10%) (muriatic acid, chlorhydric acid)	7647-01-0	n/a	n/a	n/a	Level 6	Level 6
Hydrochloric acid (36%) (muriatic acid, chlorhydric acid)	7647-01-0	Level 3	n/a	n/a	Level 2	Level 2
Hydrofluoric acid (40%)	7664-39-3	A	A	A	n/a	n/a
Hydrogen peroxide (30 %)	7722-84-1	Level 6	Level 6	Level 6	Level 6	Level 6
Isopropyl alcohol (70%) (2-propanol, IPA)	67-63-0	Level 1	Level 3	Level 3	Level 2	Level 2
Methanol (5%) (methyl alcohol)	67-56-1	n/a	Level 6	Level 6	Level 6	Level 6
Methanol p.a. (methyl alcohol)	67-56-1	X	X	X	X	X
Methylmethacrylate (MMA)	80-62-6	n/a	n/a	n/a	n/a	n/a
Ninhydrin (0,2%)	485-47-2	Level 6	n/a	n/a	n/a	n/a
Nitric acid (10%)	7697-37-2	Level 6	Level 6	Level 6	Level 6	Level 6
Nitric acid (36%)	7697-37-2	Level 4	Level 3	Level 3	n/a	n/a
Octenidin (0,1%)	71251-02-0	n/a	n/a	n/a	n/a	n/a
Phenol (10%)	108-95-2	Level 2	X	X	Level 1	Level 1
Phosphoric acid (85%) (orthophosphoric acid)	7664-38-2	n/a	n/a	n/a	n/a	n/a
Potassium hydroxide (50%) (caustic potash, lye)	1310-58-3	n/a	n/a	n/a	Level 6	Level 6
Povidone iodine (10%)	25655-41-8	n/a	n/a	n/a	n/a	n/a
Sodium hydroxide (40%) (caustic soda, lye, white caustic)	1310-73-2	Level 6	Level 6	Level 6	Level 6	Level 6
Sodium hypochlorite (10%)	7681-52-9	n/a	n/a	n/a	n/a	n/a
Sulfuric acid (30%) (vitriol)	7664-93-9	n/a	n/a	n/a	n/a	n/a
Sulfuric acid (96%) (vitriol)	7664-93-9	A	A	Level 1	A	A
Toluene (methylbenzol, phenylmethan, toluol)	108-88-3	X	X	X	X	X
Trichlorethane (methyltrichloromethane)	71-55-6	X	X	X	X	X
Xylene (xylol, dimethylbenzene)	95-47-6	X	X	X	X	X



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X not recommended

A for splash contact recommended – change glove immediately after contact

Level 1 for short contact up to 30 min recommended

Level 2 for contact up to 60 min recommended

Level 3 for contact up to 120 min recommended

Level 4 for contact up to 240 min recommended

Level 5 for contact up to 480 min recommended

Level 6 for contact longer than 480 min recommended

Disclaimer: As VWR Collection products are mainly intended to be used for analyses in laboratories, the finished products have not been tested and we state that this declaration not discharges the user from his obligation to ensure the product is suitable for his intended use(s).

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