

Chemical Compatibility

1. Filter Materials and Mini Cartridges

	Cellulose acetate	Cellulose nitrate	Reg. Cellulose	PTFE	Polyamide	Glass fiber	Polycarbonate	Polyether-sulfone	Sartobran P cartridge	Sartofluor cartridge
Solvents	111	113	184	118	250	134	230	154		
Acetone	–	–	•	•	–	•	○	–	–	E
Acetonitrile	?	?	•	•	–	?	?	•	?	?
Gasoline	•	•	•	•	•	•	•	•	V	–
Benzene	•	•	•	•	•	•	?	•	–	–
Benzyl alcohol	○	○	•	•	•	•	?	–	○	•
n-Butyl acetate	○	–	•	•	•	•	•	•	E	?
n-Butanol	•	•	•	•	•	•	•	•	•	•
Cellosolve	•	–	•	•	?	•	–	•	–	–
Chloroform	–	•	•	•	•	•	–	–	–	–
Cyclohexane	○	○	•	•	?	•	•	–	○	V
Cyclohexanone	–	–	•	•	•	•	?	?	–	–
Diethylacetamide	–	–	•	•	•	•	?	?	–	?
Diethyl ether	•	–	•	•	•	•	•	?	–	–
Dimethyl formamide	–	–	○	•	○	•	–	?	–	•
Dimethylsulfoxide	–	–	•	•	•	•	–	–	–	•
Dioxane	–	–	•	•	•	•	–	•	–	•
Ethanol, 98%	•	○	•	•	•	•	•	•	•	•
Ethyl acetate	–	–	•	•	•	•	?	–	–	–
Ethylene glycol	•	○	•	•	?	•	•	•	•	•
Formamide	?	?	?	•	?	•	–	?	–	•
Glycerin	•	•	•	•	•	•	•	•	•	•
n-Heptane	•	•	•	•	?	•	?	?	•	V
n-Hexane	•	•	•	•	•	•	•	?	V	–
Isobutanol	○	○	•	•	•	•	•	?	–	•
Isopropanol	•	○	•	•	•	•	•	•	•	•
Isopropyl acetate	○	–	•	•	?	•	?	•	–	•
Methanol, 98%	•	–	•	•	?	•	•	•	•	•
Methyl acetate	–	–	•	•	•	•	?	–	–	•
Methylene chloride	–	○	•	•	•	•	–	–	–	–
Methyl ethyl ketone	–	–	•	•	•	•	?	–	–	•
Methyl isobutyl ketone	•	–	•	•	•	•	?	?	–	–
Monochlorobenzene	•	•	•	•	•	•	–	?	V	V
Nitrobenzene	•	○	•	•	•	•	–	?	–	–
n-Pentane	•	•	•	•	•	•	•	?	V	V
Perchloroethylene	•	•	•	•	•	•	•	?	V	V
Pyridine	–	–	•	•	•	•	–	–	–	–
Carbon tetrachloride	○	•	•	•	•	•	?	•	–	?
Tetrahydrofuran	–	–	•	•	•	•	–	–	–	–
Toluene	•	•	•	•	•	•	?	•	–	–

Key to symbols see next page.

	Cellulose acetate	Cellulose nitrate	Reg. Cellulose	PTFE	Polyamide	Glass fiber	Polycarbonate	Polyether-sulfone	Sartobran P cartridge	Sartofluor cartridge
Solvents	111	113	184	118	250	134	230	154		
Trichloroethane	○	●	●	●	?	●	?	?	–	?
Trichloroethylene	●	●	●	●	●	●	–	●	–	?
Xylene	●	●	●	●	●	●	●	●	–	–
Acids										
Acetic acid, 25%	●	●	●	●	○	?	○	●	●	?
Acetic acid, 96%	–	–	●	●	–	?	?	●	–	●
Hydrofluoric acid, 25%	●	○	○	●	–	?	●	?	–	–
Hydrofluoric acid, 50%	●	○	–	●	–	?	●	?	–	–
Perchloric acid, 25%	–	○	○	●	–	?	?	?	–	●
Phosphoric acid, 25%	●	○	○	●	–	?	?	?	●	●
Phosphoric acid, 85%	○	○	○	●	–	?	–	?	–	V/E
Nitric acid, 25%	–	○	–	●	–	?	●	●	–	V
Nitric acid, 65%	–	–	–	●	–	?	●	●	–	–
Hydrochloric acid, 25%	–	○	–	●	–	?	●	●	–	V/E
Hydrochloric acid, 37%	–	–	–	●	–	?	●	●	–	V/E
Sulfuric acid, 25%	–	○	○	●	–	●	?	●	–	●
Sulfuric acid, 98%	–	–	–	●	–	?	–	?	–	–
Trichloroacetic acid, 25%	–	○	●	●	–	?	?	?	–	●
Bases										
Ammonium, 1N	●	●	○	●	●	●	–	●	E	●
Ammonium hydroxide, 25%	–	○	–	○	●	○	–	●	–	●
Potassium hydroxide, 32%	–	–	○	●	○	○	–	●	–	●
Sodium hydroxide, 32%	–	–	○	●	○	○	–	●	–	●
Sodium, 1N	○	–	○	●	●	●	–	●	–	●
Aqueous solutions										
Formalin, 30%	○	●	○	●	○	●	●	●	–	●
Sodium hypochlorite, 5%	●	○	●	●	○	●	?	?	–	●
Hydrogen peroxide, 35%	●	●	○	●	○	?	?	?	●	●

Key to symbols

- = compatible
- = limited compatibility
- = not compatible
- ? = not tested

E = compatible after replacing silicone O-ring with an EPDM O-ring

V = compatible after replacing the silicone O-ring with a Viton O-ring

Contact time: 24 hours at 20°C

Chemical compatibilities can be influenced by various factors.

Therefore, we recommend that you confirm compatibility with the liquid you wish to filter by performing a trial filtration run before you begin with actual filtration.

2. Filter Holder, Cartridge Housing and O-ring Materials

	Glass	Poly-carbonate	Poly-propylene	PTFE	Stainless steel	EPDM O-ring	PTFE O-ring	Silicone O-ring	Viton O-ring
Solvents									
Acetone	•	○	•	•	•	•	•	-	-
Acetonitrile	•	?	•	•	•	○	•	-	•
Gasoline	•	○	•	•	•	-	•	-	•
Benzene	•	-	-	•	•	-	•	-	•
Benzyl alcohol	•	-	•	•	•	○	•	•	•
n-Butyl acetate	•	-	○	•	•	•	•	-	-
n-Butanol	•	•	•	•	•	•	•	•	•
Cellosolve	•	-	-	•	•	○	•	-	-
Chloroform	•	-	-	•	•	-	•	-	•
Cyclohexane	•	○	•	•	•	-	•	-	•
Cyclohexanone	•	-	•	•	•	-	•	-	-
Diethylacetamide	•	-	?	•	•	?	•	•	-
Diethyl ether	•	-	○	•	•	-	•	-	-
Dimethyl formamide	•	-	•	•	•	•	•	○	-
Dimethylsulfoxide	•	?	?	•	•	?	•	○	-
Dioxane	•	-	○	•	•	•	•	-	-
Ethanol, 98%	•	•	•	•	•	•	•	•	•
Ethyl acetate	•	-	•	•	•	•	•	-	-
Ethylene glycol	•	•	•	•	•	•	•	•	•
Formamide	•	-	•	•	•	•	•	-	○
Glycerin	•	○	•	•	•	•	•	•	•
n-Heptane	•	•	•	•	•	-	•	•	•
n-Hexane	•	•	•	•	•	-	•	-	•
Isobutanol	•	•	•	•	•	•	•	•	•
Isopropanol	•	○	•	•	•	•	•	•	•
Isopropyl acetate	•	•	•	•	•	•	•	-	-
Methanol, 98%	•	-	•	•	•	•	•	•	•
Methyl acetate	•	?	•	•	•	•	•	-	-
Methylene chloride	•	-	-	•	•	-	•	-	○
Methyl ethyl ketone	•	-	•	•	•	•	•	-	-
Methyl isobutyl ketone	•	-	?	•	•	-	•	-	-
Monochlorobenzene	•	-	•	•	•	-	•	-	•
Nitrobenzene	•	-	○	•	•	-	•	-	-
n-Pentane	•	•	•	•	•	-	•	-	•
Perchloroethylene	•	-	○	•	•	-	•	-	•
Pyridine	•	-	○	•	•	-	•	-	-
Carbon tetrachloride	•	-	○	•	•	-	•	-	•
Tetrahydrofuran	•	-	○	•	•	-	•	-	-
Toluene	•	-	•	•	•	-	•	-	○

Key to symbols see next page.

	Glass	Poly-carbonate	Poly-propylene	PTFE	Stainless steel	EPDM O-ring	PTFE O-ring	Silicone O-ring	Viton O-ring
Solvents									
Trichloroethane	•	–	?	•	•	–	•	–	•
Trichloroethylene	•	–	–	•	•	–	•	–	•
Xylene	•	–	○	•	•	–	•	–	○
Acids									
Acetic acid, 25%	•	•	•	•	•	•	•	•	–
Acetic acid, 96%	•	–	•	•	•	•	•	?	–
Hydrofluoric acid, 25%	–	–	•	•	–	○	•	–	○
Hydrofluoric acid, 50%	–	–	•	•	–	○	•	–	○
Perchloric acid, 25%	•	○	•	•	–	•	•	–	•
Phosphoric acid, 25%	•	○	•	•	○	•	•	–	•
Phosphoric acid, 85%	•	○	•	•	○	•	•	–	•
Nitric acid, 25%	•	–	•	•	–	○	•	–	•
Nitric acid, 65%	•	–	–	•	–	–	•	–	•
Hydrochloric acid, 25%	•	○	•	•	–	○	•	–	•
Hydrochloric acid, 37%	•	–	•	•	–	•	•	–	•
Sulfuric acid, 25%	•	•	•	•	○	•	•	–	•
Sulfuric acid, 98%	•	–	–	•	–	–	•	–	•
Trichloroacetic acid, 25%	•	○	•	•	–	•	•	–	–
Bases									
Ammonium, 1N	•	–	•	•	•	•	•	–	–
Ammonium hydroxide, 25%	•	–	•	•	•	•	•	•	–
Potassium hydroxide, 32%	•	–	•	•	•	•	•	○	○
Sodium hydroxide, 32%	•	–	•	•	•	•	•	○	•
Sodium, 1N	•	–	•	•	•	•	•	•	•
Aqueous solutions									
Formalin, 30%	•	•	•	•	•	•	•	○	•
Sodium hypochlorite, 5%	•	•	•	•	•	•	•	•	•
Hydrogen peroxide, 35%	•	•	•	•	•	•	•	•	•

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3. Ready-to-Connect Filtration Units

	Midisart 2000	Minisart	Minisart HY	Minisart RC	Minisart SRP	Sartobran 300	Sartobran P Capsule	Sartofluor Capsule	Sartolab P20
Solvents									
Acetone	•	–	–	•	–	–	–	•	–
Acetonitrile	•	–	?	•	•	?	?	?	?
Gasoline	•	•	•	•	•	•	•	•	○
Benzene	•	–	–	?	•	–	–	○	–
Benzyl alcohol	•	?	?	?	•	○	○	•	–
n-Butyl acetate	•	–	–	?	•	•	•	•	–
n-Butanol	•	○	○	•	•	•	•	•	•
Cellosolve	○	–	–	•	○	–	–	○	–
Chloroform	•	–	–	•	•	–	–	•	–
Cyclohexane	•	–	–	?	•	○	○	•	○
Cyclohexanone	•	–	–	?	•	–	–	•	–
Diethylacetamide	•	–	–	•	•	–	–	•	–
Diethyl ether	•	?	?	?	•	○	○	•	–
Dimethyl formamide	•	–	–	?	•	–	–	•	–
Dimethylsulfoxide	•	–	–	•	•	–	–	•	–
Dioxane	•	–	–	•	•	–	–	○	–
Ethanol, 98%	•	–	–	•	•	•	•	•	•
Ethyl acetate	•	○	○	•	•	–	–	○	–
Ethylene glycol	•	?	?	•	•	•	•	•	•
Formamide	•	?	?	?	•	?	?	•	–
Glycerin	•	•	•	?	•	•	•	•	○
n-Heptane	•	•	•	?	•	•	•	•	•
n-Hexane	•	•	•	•	•	•	•	•	•
Isobutanol	•	○	○	•	•	○	○	•	○
Isopropanol	•	○	○	–	•	•	•	•	○
Isopropyl acetate	•	○	○	?	•	○	○	•	○
Methanol, 98%	•	–	–	•	•	•	•	•	–
Methyl acetate	•	–	–	?	•	–	–	•	–
Methylene chloride	•	–	–	•	•	–	–	○	–
Methyl ethyl ketone	•	–	–	•	•	–	–	•	–
Methyl isobutyl ketone	•	?	?	?	•	?	?	•	–
Monochlorobenzene	•	?	?	?	•	•	•	•	–
Nitrobenzene	•	?	?	?	•	○	○	•	–
n-Pentane	•	•	•	•	•	•	•	•	•
Perchloroethylene	•	○	○	?	•	○	○	•	–
Pyridine	•	–	–	?	•	–	–	•	–
Carbon tetrachloride	•	○	○	?	•	○	○	•	–
Tetrahydrofuran	•	–	–	•	•	–	–	○	–
Toluene	•	–	–	•	•	•	•	•	–

Key to symbols see next page.

	Midisart 2000	Minisart	Minisart HY	Minisart RC	Minisart SRP	Sarto- bran 300	Sartobran P Capsule	Sartofluor Capsule	Sartolab P20
Solvents									
Trichloroethane	•	○	○	•	•	?	?	•	-
Trichloroethylene	○	?	?	?	○	-	-	-	-
Xylene	•	-	-	•	•	○	○	•	-
Acids									
Acetic acid, 25%	•	○	○	?	?	•	•	•	•
Acetic acid, 96%	•	-	-	?	•	-	-	•	-
Hydrofluoric acid, 25%	•	○	○	?	•	•	•	•	-
Hydrofluoric acid, 50%	•	○	○	?	•	-	-	•	-
Perchloric acid, 25%	•	?	?	?	•	-	-	•	-
Phosphoric acid, 25%	•	•	•	?	•	•	•	•	•
Phosphoric acid, 85%	-	?	?	?	-	○	○	-	○
Nitric acid, 25%	•	-	-	?	•	-	-	•	-
Nitric acid, 65%	•	-	-	?	•	-	-	○	-
Hydrochloric acid, 25%	•	-	-	?	•	-	-	•	-
Hydrochloric acid, 37%	•	-	-	?	•	-	-	•	-
Sulfuric acid, 25%	•	-	-	?	•	-	-	•	-
Sulfuric acid, 98%	•	-	-	?	•	-	-	•	-
Trichloroacetic acid, 25%	•	-	-	•	•	-	-	•	-
Bases									
Ammonium, 1N	•	•	•	?	•	•	•	•	-
Ammonium hydroxide, 25%	•	○	○	?	•	○	○	•	-
Potassium hydroxide, 32%	•	-	-	?	•	-	-	•	-
Sodium hydroxide, 32%	•	-	-	?	•	-	-	•	-
Sodium, 1N	•	○	○	?	•	○	○	•	-
Aqueous solutions									
Formalin, 30%	•	-	-	?	•	○	○	•	○
Sodium hypochlorite, 5%	•	•	•	?	•	-	-	•	•
Hydrogen peroxide, 35%	•	•	•	?	•	•	•	•	•

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