

# A.1 Chemical Compatibility table

## Filter Media

## Housing

Solvents	Cel. Acetate	Cel. Nitrate	Glass fiber	PP	Polyamide	PTFE	PES	PVDF	Reg. Cel.	Polyester	PC	Acrylic mod.	Polysulfone	Polystyrene	PP
Acetone	x	x	✓	✓	✓	✓	x	x	✓	✓	○	x	x	x	✓
Acetonitrile	x	x	?	✓	○	✓	✓	✓	✓	✓	x	x	x	x	✓
Amyl alcohol	✓	x	✓	✓	✓	✓	x	✓	✓	?	?	x	✓	x	✓
Amyl acetate	○	x	✓	✓	✓	✓	○	✓	✓	✓	✓	x	x	x	✓
Aniline	x	x	?	✓	✓	✓	✓	✓	✓	✓	x	?	x	?	✓
Benzene	○	✓	✓	○	✓	✓	✓	○	✓	✓	○	x	x	x	○
Benzyl alcohol	○	✓	x	✓	○	✓	x	✓	✓	✓	○	✓	✓	x	✓
Bromoform	x	✓	✓	✓	✓	✓	?	?	?	✓	x	?	x	?	✓
N-Butyl acetate	○	x	✓	✓	✓	✓	○	✓	✓	✓	✓	x	x	x	✓
Butyl Alcohol	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	?	✓
Carbon tetrachloride	○	✓	x	✓	✓	✓	✓	✓	✓	✓	○	x	x	x	✓
Chloroform	x	✓	✓	○	○	✓	x	○	✓	✓	x	x	○	x	○
Cyclohexane	○	○	✓	✓	✓	✓	x	x	✓	✓	○	x	✓	?	✓
Cyclohexanane	x	x	✓	✓	✓	✓	x	x	✓	✓	○	x	x	x	✓
Ethoxyethanol (Cellosolve)	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	?	✓
Ethyl alcohol 90%	✓	○	✓	✓	✓	✓	✓	✓	?	✓	✓	○	✓	x	✓
Ethylene dichloride	x	x	✓	✓	○	✓	x	○	✓	✓	x	?	x	?	○
Dimethyl acetamide	x	x	✓	x	✓	✓	?	?	✓	✓	x	x	x	x	x
Diethyl ether	✓	x	✓	✓	✓	✓	?	✓	✓	✓	✓	x	x	x	✓
Dimethyl formamide	x	x	✓	✓	○	✓	x	x	○	✓	x	x	x	x	✓
Dimethyl sulfoxide (DMSO)	x	x	✓	✓	✓	✓	x	x	✓	✓	x	x	x	x	✓
Dioxane	x	x	✓	✓	✓	✓	○	✓	✓	✓	x	x	x	x	✓
Ethanol 98%	✓	○	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x	✓
Ethyl acetate	x	x	✓	○	○	✓	○	✓	✓	?	?	?	?	?	○
Ethyl ether	○	○	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	x	✓
Ethylene glycol	✓	○	✓	✓	✓	✓	✓	✓	✓	✓	✓	?	✓	?	✓
Formamide	?	?	✓	✓	?	✓	?	?	?	x	x	?	?	?	✓
Formaldehyde 37%	○	x	?	✓	✓	✓	✓	✓	○	✓	✓	x	✓	x	✓
Freon TF	✓	✓	✓	✓	✓	✓	✓	✓	?	✓	✓	○	✓	x	✓
Gasoline	✓	✓	✓	○	✓	✓	?	✓	✓	✓	✓	x	✓	x	○
Glycerine	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	?	✓	?	✓
n-Heptano	✓	?	✓	✓	✓	✓	✓	✓	✓	✓	?	?	?	?	✓
n-Hexanol	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	x	✓
Isobutyl alcohol	✓	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	?
Isopropanol	○	○	✓	✓	✓	✓	✓	✓	✓	✓	✓	?	✓	?	✓
Isopropil acetato	x	x	✓	✓	✓	✓	✓	x	✓	✓	✓	x	x	x	✓
Isopropil éter	✓	✓	?	✓	?	✓	?	✓	✓	✓	x	?	?	?	✓
Kerosene	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x	✓
Metanol 98%	x	x	✓	✓	○	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Methyl acetate	x	x	✓	✓	✓	✓	x	✓	✓	✓	x	x	x	x	✓
Methylene chloride	x	x	✓	✓	○	✓	x	✓	✓	✓	x	x	x	x	✓
Methyl etil ketone	x	x	✓	✓	✓	✓	x	x	✓	✓	○	x	x	x	✓
Methyl isobutyl ketone	x	x	✓	✓	✓	✓	x	x	✓	?	○	x	x	x	✓
Monochlorobenzene	?	?	✓	?	✓	✓	?	?	✓	?	x	?	?	?	?
Nitrobenzene	x	x	x	✓	✓	✓	x	✓	✓	✓	x	x	x	x	✓
N-Pentane	✓	✓	✓	○	✓	✓	✓	✓	✓	✓	✓	x	✓	x	○
Perchlorethylene	○	✓	x	✓	✓	✓	x	?	✓	?	✓	x	○	x	✓
Phenol	x	✓	?	✓	✓	✓	x	✓	✓	✓	✓	?	?	?	✓
Pyridine	x	x	✓	✓	✓	✓	x	x	✓	✓	x	x	x	x	✓
Perchlorethylene	✓	✓	x	✓	✓	✓	x	○	✓	?	✓	x	○	x	✓
Propanol	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	?	✓	?	✓
Propylene glycol	?	?	?	✓	✓	✓	○	✓	?	?	?	?	?	?	✓
Pyridine	x	x	✓	✓	✓	✓	x	x	✓	✓	x	x	x	x	✓
Tetrahydrofuran	x	x	○	○	○	○	x	○	✓	✓	x	x	x	x	○

✓ = compatible    ○ = limited compatibility    x = not compatible    ? = not tested

Toluene	○	✓	✓	○	✓	✓	x	✓	✓	✓	○	x	x	x	○
Turpentine	✓	✓	✓	○	✓	✓	x	✓	?	✓	✓	?	✓	?	?
Trichloroethane	○	✓	?	✓	✓	✓	✓	?	✓	?	?	x	x	x	✓
Trichlorethylene	✓	✓	x	○	✓	○	✓	✓	✓	✓	x	x	x	x	○
Triethylamine	✓	○	✓	✓	✓	✓	?	?	✓	✓	○	?	x	?	?
Water	✓	✓	✓	✓	✓	*	✓	✓	✓	✓	✓	✓	✓	✓	✓
Xylene	✓	✓	✓	○	✓	✓	○	✓	✓	✓	✓	✓	x	x	x

Filter Media

Acids	Cel. Acetate	Cel. Nitrate	Glass fiber	PP	Polyamide	PTFE	PES	PVDF	Reg. Cel.	Polyester	PC	Housing			
												Acrylic mod.	Polysulfone	Polystyrene	PP
Acetic acid 5%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
Acetic acid 10%	✓	✓	✓	✓	○	✓	✓	✓	✓	✓	✓	x	✓	✓	✓
Acetic acid 25%	✓	✓	?	✓	○	✓	x	✓	✓	✓	○	x	✓	✓	✓
Acetic acid 96%	x	x	✓	✓	x	✓	✓	✓	✓	✓	○	x	✓	✓	○
Boric acid	✓	✓	?	✓	○	✓	?	?	?	✓	✓	x	✓	✓	✓
Hydrofluoric acid 10%	x	x	x	✓	x	✓	?	✓	x	✓	✓	?	?	?	✓
Hydrofluoric acid 25%	✓	○	x	✓	x	✓	?	✓	x	✓	✓	?	?	?	✓
Hydrofluoric acid 35%	✓	○	x	✓	x	✓	?	✓	○	✓	✓	?	?	?	✓
Hydrofluoric acid 50%	✓	○	x	x	x	✓	✓	✓	x	?	?	?	?	?	✓
Phosphoric acid 25%	✓	○	?	✓	x	✓	✓	✓	○	?	?	x	x	x	✓
Phosphoric acid 85%	○	○	?	✓	x	✓	?	✓	x	?	x	x	x	x	✓
Nitric acid 25%	x	○	?	✓	x	✓	✓	✓	x	✓	✓	x	x	x	✓
Nitric acid 65%	x	x	?	✓	x	✓	✓	✓	x	x	✓	x	x	x	✓
Hydrochloric acid 25%	x	○	?	✓	x	✓	✓	✓	x	○	✓	x	✓	✓	✓
Hydrochloric acid 37%	x	x	?	✓	x	✓	✓	✓	x	x	✓	x	✓	✓	✓
Hydrochloric acid 98%	x	x	?	✓	x	✓	✓	?	x	?	x	x	✓	✓	✓
Perchloric acid 60%	○	✓	?	✓	?	✓	✓	?	✓	?	x	x	?	?	✓
Sulfuric acid 25%	x	○	✓	✓	x	✓	✓	✓	○	✓	?	x	x	x	✓
Sulfuric acid 98%	x	x	?	✓	x	✓	x	?	x	x	x	x	x	x	✓
Trichloroacetic acid 25%	x	○	?	✓	x	✓	?	?	✓	?	?	?	✓	?	✓

Filter Media

Bases	Cel. Acetate	Cel. Nitrate	Glass fiber	PP	Polyamide	PTFE	PES	PVDF	Reg. Cel.	Polyester	PC	Housing			
												Acrylic mod.	Polysulfone	Polystyrene	PP
Ammonium, 1N	✓	✓	✓	?	✓	✓	✓	?	○	○	✓	?	?	?	✓
Ammonium hydroxide 25%	x	○	○	✓	✓	○	✓	○	x	○	x	✓	✓	✓	✓
Potassium hydroxide 32%	x	x	○	✓	○	✓	✓	○	○	x	x	?	✓	?	✓
Sodium hydroxide 32%	x	x	○	✓	○	✓	✓	○	○	x	x	?	?	?	✓

Filter Media

Aqueous Solutions	Cel. Acetate	Cel. Nitrate	Glass fiber	PP	Polyamide	PTFE	PES	PVDF	Reg. Cel.	Polyester	PC	Housing			
												Acrylic mod.	Polysulfone	Polystyrene	PP
Formalin 30%	○	✓	✓	?	○	✓	✓	?	○	?	✓	✓	✓	✓	✓
Saline solution	✓	✓	✓	✓	✓	*	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sodium hypochlorite 5%	✓	○	✓	?	○	✓	?	?	✓	?	?	✓	✓	✓	✓
Hydrogen peroxide 35%	✓	✓	?	?	○	✓	?	?	○	?	?	✓	✓	✓	✓

Filter Media

Oils and others	Cel. Acetate	Cel. Nitrate	Glass fiber	PP	Polyamide	PTFE	PES	PVDF	Reg. Cel.	Polyester	PC	Housing			
												Acrylic mod.	Polysulfone	Polystyrene	PP
Cotton seed oil	✓	✓	✓	✓	✓	✓	?	✓	?	?	✓	?	✓	?	✓
Freon TF	✓	✓	✓	✓	✓	✓	✓	✓	?	✓	✓	○	✓	x	✓
Kodak KMER FTFR	x	x	x	?	✓	✓	?	?	?	✓	✓	x	✓	x	✓
Lubricant oil	✓	✓	✓	✓	✓	✓	x	✓	✓	✓	✓	✓	✓	✓	✓
Peanut oil	✓	✓	✓	✓	✓	✓	✓	✓	?	✓	✓	?	✓	?	✓
Petroleum oil	?	✓	○	○	?	✓	○	✓	✓	✓	✓	✓	○	○	✓
Sesame oil	✓	✓	✓	✓	✓	✓	✓	✓	?	✓	✓	?	✓	?	✓
Shipley (As-111,340, 1350)	x	x	x	✓	✓	✓	?	?	?	✓	✓	x	✓	x	✓
Silicone oils	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	?	✓	?	✓
Waycoat 59	x	x	✓	✓	✓	✓	?	?	?	✓	✓	x	✓	x	✓

✓ = compatible      ○ = limited compatibility      x = not compatible      ? = not tested

Time of contact: 24 hours to 20 °C

Chemical compatibility depends of several factors

For that, recommend confirm the compatibility with the sample before to start the process of filtration