

Chemical resistance list for OPTIFIX and POLYFIX Dispenser

Chemicals	Dispenser FORTUNA OPTIFIX BASIC, SAFETY & SAFETY S	Dispenser FORTUNA OPTIFIX SOLVENT	Dispenser FORTUNA OPTIFIX UNIVERSAL HF	Dispenser FORTUNA POLYFIX (glass piston 101.070)	Dispenser FORTUNA POLYFIX (PTFE encased piston, 101.071)
1,4 Dioxane ⁽²⁾		+			
1-Blutanol		+		+	
1-decanol ⁽²⁾		+			
Acetaldehyde ⁽¹⁾⁽²⁾	+		+		
Acetic acid ⁽²⁾	+		+		
Acetic anhydride ⁽²⁾	+		+		
Acetone ⁽²⁾		+			
Acetone, ≤ 20 °C		+		+	
Acetonitrile ⁽¹⁾⁽²⁾		+			
Acetophenone ⁽²⁾		+			
acetyl chloride ⁽¹⁾⁽²⁾		+			
Acetylacetone ⁽²⁾		+			
Acryl acid ethyl ester ⁽¹⁾⁽²⁾		+			
Acrylnitrile ⁽²⁾		+			
Adipic acid, aqueous		+		+	
Aluminium chloride	+		+		+
Amino acids	+				+
Ammoniac (ammonium hydroxide), ≤ 20 %	+				+
Ammoniac (ammonium hydroxide), ≤ 20-30 % ⁽²⁾	+				
Ammonium chloride	+		+		+
Ammonium fluoride, aqueous	+		+		+
Ammonium sulfate, aqueous	+		+		+
Amyl acetate ⁽²⁾		+			
Amyl alcohol (pentanol)		+		+	
Aniline ⁽¹⁾⁽²⁾		+			
Barium chloride, aqueous	+		+		+
Benzaldehyde, aqueous ⁽¹⁾		+		+	
Benzene ⁽¹⁾⁽²⁾		+			
Benzoic acid, aqueous		+		+	
Benzyl alcohol		+		+	
Blutenediol ⁽²⁾		+			
Boric acid, aqueous ⁽²⁾	+		+		
Bromine (liquid) - clear ⁽¹⁾⁽²⁾		+			
Buffer solution (e.g. Acetate, Phosphate)	+		+		+
Butyl acetate ⁽¹⁾⁽²⁾		+			
Butyl methyl ether ⁽¹⁾⁽²⁾		+			
Butylamine ⁽²⁾		+			
Butyric acid ⁽²⁾		+			
Calcium chloride	+		+		+
Calcium hydroxide (solved chalk), aqueous ⁽²⁾	+		+		
Calcium hypochlorite (chlorinated lime), aqueous	+		+		+
Carbon disulfide		+		+	
Carbon tetrachloride ⁽²⁾		+			
Chlornaphthaline ⁽²⁾		+			
Chloroacetic acid ⁽¹⁾⁽²⁾	+		+		

*SAFETY Dispenser recommended ⁽¹⁾ safety stopcock recommended

**SAFETY S Dispenser recommended ⁽²⁾ PTFE adapters recommended

Chemical resistance list for OPTIFIX and POLYFIX Dispenser

Chemicals	Dispenser FORTUNA OPTIFIX BASIC, SAFETY & SAFETY S	Dispenser FORTUNA OPTIFIX SOLVENT	Dispenser FORTUNA OPTIFIX UNIVERSAL HF	Dispenser FORTUNA POLYFIX (glass piston 101.070)	Dispenser FORTUNA POLYFIX (PTFE encased piston, 101.071)
Chlorobenzene ⁽²⁾		+			
Chloroform (Trichlormethane) ⁽¹⁾⁽²⁾		+			
Chlorosulfuric acid ⁽¹⁾⁽²⁾	+/**		+		
Chromic acid, ≤ 50 % ⁽¹⁾⁽²⁾	+/**		+		
Copper sulfate solution	+		+		+
Cresol ⁽¹⁾⁽²⁾		+			
Cumene (Isopropylbenzol) ⁽²⁾		+			
Cyclohexane ⁽²⁾		+			
Cyclohexanone ⁽²⁾		+			
Decane ⁽²⁾		+			
Dibenzyl ether ⁽²⁾		+			
Dichlorbenzene ⁽²⁾		+			
Dichlorethane ⁽¹⁾⁽²⁾		+			
Dichlormethane ⁽¹⁾⁽²⁾		+			
Dichloroacetic acid ⁽²⁾		+			
Dichloroethene ⁽¹⁾⁽²⁾		+			
Diethanolamine ⁽¹⁾⁽²⁾		+			
Diethyl ether ⁽¹⁾⁽²⁾		+			
Diethylamine ⁽¹⁾⁽²⁾		+			
Diethylene glycol ⁽²⁾		+			
Dimethyl sulfoxide ⁽²⁾		+			
Dimethylaniline ⁽¹⁾⁽²⁾		+			
Dimethylformamide (DMF)		+		+	
Diphenyl ether ⁽¹⁾⁽²⁾		+			
Ellyl alcohol		+		+	
Essential oil (aromatic oil)		+		+	
Ethanol		+		+	
Ethanolamine		+		+	
Ethyl acetate ⁽²⁾		+			
Ethylbenzol ⁽²⁾		+			
Ethylene glycol		+		+	
Ethleneglycolether		+			
Fluoric acid ⁽¹⁾⁽²⁾			+		
Fluoroacetic acid ⁽²⁾	+				
Formaldehyde ⁽¹⁾		+		+	
Formamide ⁽²⁾		+			
Formic acid ⁽¹⁾⁽²⁾		+			
Gasoline (petrol gasoline, hexane) ⁽²⁾		+			
Glacial acetic acid ⁽²⁾	+		+		
Glycol (Methyl ethyl ketone)		+		+	
Glycolic acid, ≤ 50 %		+		+	
Heptane, Hexane (petrol) ⁽¹⁾⁽²⁾		+			
Hexanoic acid ⁽²⁾		+			
Hexanol ⁽²⁾		+			
HPLC water	+	+	+		

*SAFETY Dispenser recommended ⁽¹⁾ safety stopcock recommended

**SAFETY S Dispenser recommended ⁽²⁾PTFE adapters recommended

Chemical resistance list for OPTIFIX and POLYFIX Dispenser

Chemicals	Dispenser FORTUNA OPTIFIX BASIC, SAFETY & SAFETY S	Dispenser FORTUNA OPTIFIX SOLVENT	Dispenser FORTUNA OPTIFIX UNIVERSAL HF	Dispenser FORTUNA POLYFIX (glass piston 101.070)	Dispenser FORTUNA POLYFIX (PTFE encased piston, 101.071)
Hydrobromic acid, aqueous	+		+		+
Hydrochloric acid, ≤ 20 %	+		+		+
Hydrochloric acid, 20-35 %** ⁽¹⁾⁽²⁾	+/*		+		
Hydrochloric acid, concentrated ⁽¹⁾⁽²⁾	+/**		+		
Hydrogen cyanide ⁽¹⁾	+/**		+		+
Hydrogen peroxide ⁽²⁾		+			
Hydroiodic acid, ≤ 57 % ⁽²⁾	+				
Iodine, solved in solvent ⁽²⁾		+			
Iso amyl alcohol ⁽²⁾		+			
Isobutanol		+		+	
Isooctane		+		+	
Isopropanol (2-propanol)		+		+	
Isopropyl ether ⁽¹⁾⁽²⁾		+			
Kerosene (petroleum benzine, petrol) ⁽¹⁾⁽²⁾		+			
Lactic acid	+		+		+
Lead acetate - aqueous	+		+		+
Magnesium chloride	+		+		+
Methoxybenzene ⁽¹⁾⁽²⁾		+			
Methyl alcohol ⁽¹⁾⁽²⁾		+			
Methyl chloride ⁽²⁾		+			
Methyl ethyl ketone ⁽²⁾		+			
Methyl formate ⁽¹⁾⁽²⁾		+			
Methyl propyl ketone ⁽¹⁾⁽²⁾		+			
Methylene chloride		+			
Methylene chloride ⁽¹⁾⁽²⁾		+			
Natrium dichromate ⁽¹⁾⁽²⁾	+		+		
Nitric acid, ≤ 10 %	+		+		+
Nitric acid, ≤ 30 % ⁽²⁾	+/*		+		
Nitric acid, 30-70% ** ⁽¹⁾⁽²⁾	+/**		+		
Nitrobenzene ⁽²⁾		+			
Oleic acid < 20° C		+		+	
Oleic acid, > 20° C ⁽²⁾		+			
Oxalic acid	+		+		+
Peptone water	+		+		+
Perchloroethylene ⁽¹⁾⁽²⁾		+			
Perchloric acid ⁽¹⁾⁽²⁾	+/**		+		
Perfume (oil) ⁽²⁾		+			
Petroleum ether, 20°C ⁽¹⁾		+			
Petroleum, 20°C		+			
Phenol ⁽¹⁾⁽²⁾		+			
Phosphoric acid, aqueous	+		+		+
Phosphoric acid, concentrated ⁽¹⁾⁽²⁾	+/**		+		
Potassium chloride	+		+		+
Potassium dichromate	+		+		+
Potassium hydroxide	+		+		+

*SAFETY Dispenser recommended ⁽¹⁾ safety stopcock recommended

**SAFETY S Dispenser recommended ⁽²⁾ PTFE adapters recommended

Chemical resistance list for OPTIFIX and POLYFIX Dispenser

Chemicals	Dispenser FORTUNA OPTIFIX BASIC, SAFETY & SAFETY S	Dispenser FORTUNA OPTIFIX SOLVENT	Dispenser FORTUNA OPTIFIX UNIVERSAL HF	Dispenser FORTUNA POLYFIX (glass piston 101.070)	Dispenser FORTUNA POLYFIX (PTFE encased piston, 101.071)
Potassium iodide ⁽²⁾	+		+		
Potassium permanganate ⁽²⁾	+/*		+		
Potassium-natrium-tartrate (Seignette salt)	+		+		+
Propionic acid		+		+	
Propylene glycol (Propanediol)		+		+	
Propylene oxide ⁽²⁾		+			
Pyridine ⁽²⁾		+			
Salicylaldehyde ⁽²⁾		+			
Silver nitrate	+/*		+		+
Sodium acetate	+		+		+
Sodium chloride (Sodium chloride solution)	+		+		+
Sodium fluoride ⁽²⁾			+		
Sodium hydroxide solution, aqueous (sodium hydroxide)	+		+		+
Sodium hypochlorite ⁽¹⁾⁽²⁾	+/**		+		
Sulfuric acid, ≤ 40 % ⁽¹⁾	+/*		+		+
Sulfuric acid, ≤ 98 % ⁽¹⁾⁽²⁾	+/**		+		
Tartaric acid	+		+		+
Tetrahydrofuran (THF) ⁽¹⁾⁽²⁾		+			
Tetramethylammonium hydroxide (TMAH) ⁽²⁾	+				
Tifluoroacetic acid (TFA) ⁽¹⁾⁽²⁾		+			
Toluene ⁽¹⁾⁽²⁾		+			
Trichlorbenzene ⁽²⁾		+			
Trichlorethane ⁽²⁾		+			
Trichlorethylene ⁽¹⁾⁽²⁾		+			
Trichloroacetic acid ⁽²⁾	+		+		
Triethanolamine, pure		+		+	
Triethylene glycol ⁽²⁾		+			
Turpentine (-oil) ⁽²⁾		+			
Urea	+		+		+
Xylene ⁽²⁾		+			
Zinc chloride	+		+		+
Zinc sulfate	+		+		+

*SAFETY Dispenser recommended

**SAFETY S Dispenser recommended

⁽¹⁾safety stopcock recommended

⁽²⁾PTFE adapters recommended

This table has been carefully checked. Here, the current state of knowledge was applied. No legal claims can be derived from this information. Please always consider the manufacturer's specifications of the devices used and chemicals to be dosed. Many more reagents can be dispensed with the FORTUNA dispensers. If your dosing liquid is not listed in the instructions for use of each OPTIFIX and POLYFIX and is also not mentioned in our list, please contact us. We are happy to help you.

General suitability of the FORTUNA Dispenser

*SAFETY Dispenser recommended ⁽¹⁾safety stopcock recommended

**SAFETY S Dispenser recommended ⁽²⁾PTFE adapters recommended

Chemical resistance list for OPTIFIX and POLYFIX Dispenser

aqueous liquids, acids, bases and crystallizing	BASIC				
solvents; chemicals that swell PTFE		SOLVENT			
hydrofluoric acid and extremely hazardous chemicals			HF		
strong acids and hazardous chemicals	SAFETY				
strong or fuming acids and odourous chemica	SAFETY S				
liquids, that do not attack polypropylene chemically and do not swell PTFE					POLYFIX PTFE
liquids, that do not attack polypropylene chemically and swell PTFE				POLYFIX glass	

In March 2017

*SAFETY Dispenser recommended ⁽¹⁾safety stopcock recommended
 **SAFETY S Dispenser recommended ⁽²⁾PTFE adapters recommended