

DispensMate Dispenser Chemical Compatibility at 20°C

The devices of *DispensMate* which contact with dispensed liquid consist of BSG, PTFE, FEP, and closure cap of outlet is PP; non contact liquids parts consist of PC and other materials. Please note that these tables are just a directional guide not the manufacturer's commitment. Please read the user manual carefully before use and to do related experiments necessarily, which can be used to determine whether should be used. Good laboratory practice would be to rinse out the liquid handling unit at the end of each day with distilled water to prevent corrosive liquids being left in contact with the parts for too long.

CHEMICAL	BSG	PTFE	FEP	PC	PP
Acids	NR	R			
Acetic, Glacial	R	R		NR	R
Acetic, 25%			R	R	R
Hydrochloric, Concentrated	SR	R			
Hydrochloric, 20%	R	R	R	SR	R
Sulphuric, concentrated	R	R			
Sulphuric, 25%			R	R	R
Nitric, Concentrated	R	SR			
Nitric, 30%	R	⁴		R	SR
Phosphoric, 25%			R		⁴
Formic, 25%	SR	SR	R		
Trichloroacetic, 10%	R	R	R	SR	SR
Formic Acid, 85%			R	R	R
Arsenic Acid	R	R			
Boric Acid, 10%	R	R	R	R	R
Chromic Acid, 10%	NR	R	R	R	R
Hydrofluoric Acid, 35%	NR	NR	NR	NR	NR
Phosphoric Acid 85%			R	R	R
Nitric Acid, 50%	NR	NR	R		
Sulphuric Acid, 95%			R	NR	NR
Alkaline	NR	R			
Ammonium Hydroxide, 25%	NR	R	R	NR	R
Potassium Hydroxide	NR	R	R	NR	R
Sodium Hydroxide			R	NR	R
Alcohols	R	R			
Methanol, 98%	R	R		R	R
Ethanol, 98%	R	R		R	R
Ethanol, 70%	R	R		R	R
Isopropanol, n-Propanol				R	R
Amyl Alcohol, Butano	SR	SR			
Benzyl Alcohol	R	R	R	SR	SR
Ethylene Glycol	R	R	R	R	R
Propylene Glycol	R	R	R	R	R
Glycerol			R	R	R
Hydrocarbons	NR	R			
Hexane, Xylene	NR	SR	R	NR	R
Toluene, Benzene			R	NR	SR
Kerosene, Gasoline					
Tetralin, Decalin					
Halogenated Hydrocarbons	NR	SR			
Methyl Chloride	NR	NR		NR	SR
Chloroform	NR	NR	R	NR	NR
Trichloroethylene			R	NR	NR
Monochlorobenzene, Freon	NR	NR			
Carbon Tetrachloride			R	NR	NR

Ketones	NR	R			
Acetone			R	NR	R
Methyl Ethyl Ketone					
Isopropylacetone					
Methyl Isobutyl Ketone	R		VR		
Esters					
Ethyl Acetate	NR	R			
Methyl Acetate				NR	R
Amyl & Propyl Acetate					
Butyl Acetate	NR	NR	R		
Propylene Glycol Acetate				NR	NR
2-Ethoxyethyl Acetate					
Methyl Cellosolve Acetate					
Benzyl Benzoate					
Isopropyl Myristate					
Tricresol Phosphate					
Oxides – Ethers					
Ethyl Ether					
1,4 Dioxane & Tetrahydrofuran	NR	SR	R		
Dimethylsulphoxide (DMSO)	NR	R	R	NR	SR
Isopropyl Ether	NR	NR		NR	R
Solvents with Nitrogen				NR	NR
Dimethyl Formamide			R		
Diethylacetamide					
Triethanolamine					
Aniline	SR	R	R		
Pyridine	NR	SR	R	SR	R
Miscellaneous				NR	SR
Phenol, Aqueous, 10%					
Formaldehyde Solution, 30%	R	R	R		
Hydrogen Peroxide, 30%	R	R	R	R	R
Silicone Oil & Mineral Oil				R	R
Pyridine	NR	SR	R		
Acetaldehyde	SR	R	R	NR	SR
Ammonia, 25% ac. Sol.	NR	R		SR	R
Ammonium				NR	R
Calcium Chloride aq. Sol	R	R	R		
Chlorine			R	R	R
Chlorobenzene	NR	NR			
Fluorinated Hydrocarbons				NR	NR
Hexane	R	R	R		
Iodine (tincture of)				R	R
Potassium Chloride aq. Sol.	R	R			
Potassium Permanganate aq. Sol.	R	R		R	R
Magnesium Chloride aq. Sol.				R	R
Methylene Chloride	NR	SR	R		
Sodium Carbonate				NR	SR
Sodium Dichromate	R	R	R		
Phenol, 100%	NR	R	R	R	R
Mercury	R	R	R	NR	R
Silver Nitrate	R	R	R	R	R
Toluene	NR	SR	R	R	R
Hydrogen Peroxide, 30%	NR	R	R	NR	SR
Xylene	NR	NR	R	NR	R
Zinc Chloride, 10%	R	R	R	NR	NR
Zinc Sulphate, 10%	R	R	R	R	R

KEY:

R = RESISTANT **NR = NON-RESISTANT** **SR = SLIGHTLY RESISTANT**

EXCEPTIONS = RESISTANT WITH EXCEPTIONS