

SCI-Spense/SCI-Spense2 Bottletop Dispensers

iFlow Bottletop Dispensers

iTrite Bottletop Burettes

Chemical Compatibility at 20℃

SCI-Spense(2)/iFlow/iTrite liquid pathway consists of BSG, PTFE, FEP, and closure cap of outlet is PP; non-liquid pathway material consists of PC and other materials. SCI-Spense2 liquid pathway consists of BSG, PFA, PTFE, FEP, ETFE, PVDF and closure cap of outlet is PP; non-liquid pathway parts consist of PC and other materials.

Please note the table is just a directional guide not the manufacturer's commitment. Please read the user manual carefully before use. Good laboratory practice would be to flush the dispenser at the end of each day with distilled water to prevent corrosive liquids being left in contact for long periods.

Code explanations:

"+" represents good resistance | "blank" represents |acceptable with limitations | "-" represents not recommended.

	SCI-Spense2	SCI-Spene iFlow iTrite		SCI-Spense2	SCI-Spene/ iFlow		SCI-Spense2	SCI-Spene iFlow iTrite
Acetaldehyde	+	+	Chromic acid ,50%	+	+	Methyl propyl ketone	+	+
Acetanide	+	+	Chromosulfuric acid	+	+	Methylene chloride		-
acetic acid, 100%	+	+	Citric acid	+	+	Mineral oil (engine oil)	+	+
acetic acid ,96%	+	+	Copper fluoride	+	+	Natriumacetat	+	+
Acetic anhydride	+		Copper sulphate	+	+	Natriumchlorid	+	+
Acetone	+	+	Cresol		-	Natriumdichro mat	+	+
Acetonitrile	+		Cyclohexan			Natriumfluorid	+	+
Acetophenon	+		Cyclohexanon	+	+	Nitric acid	+ 30%-90%	+ (≤10%)
Acetylchlorid	+		Cyclopentane			Nitric acid30%-90%	+	-
Acetylaceton	+	+	Decan	+	+	Nitrobenzol	+	+
acrylic acid	+	+	1-Decanol	+	+	Octane	+	+
Acrylnitril	+	+	Dibenzylether	+	+	Oil(vegetable,ani mal)	+	
adipic acid	+	+	Dichloroacetic			Oleic acid	+	+
Aallylacetate	+	+	Dichlorbenzol	+	+	Oxalic acid	+	+
allyl alcohol	+	+	Dichloroethane	+	-	n-Pentane	-	
aluminum chloride	+	+	Dichlorethylen			Peracetic acid	-	
amino acids	+	+	Dichlormethan	+		Perchloric acid	+	+
ammonia, 20%	+	+	Diesel oil (heating oil) ,bp 250-350 °C	+		Perchlorethylen e	-	
Ammonia, 20-30%	+		diethanolamine	+	+	Petroleum ,bp 180-220°C		
Ammonium chloride	+	+	Diethylether			Petroleum ether ,bp 40-70°C		
Ammonium fluoride	+	+	diethylamine	+	+	Phenol	+	+
Ammonium	+	+	Diethylbenzene	+	+	Phenylethanol	+	+
ammonium sulfate	+	+	Diethylene glycol	+	+	Phenylhydrazin e	+	+
n-amyl acetate	+	+	Dimethyl sulfoxide(DMSO)	+	+	phosphoric acid,100%	+	-
Amyl alcohol (pentanol)	+	+	Dimethylaniline	+	+	Phosphoric acid , ≤85%	+	+
Amylchlorid (Chlorpentan)		-	Dimethylforma mide (DMF)	+	+	Piperidine	+	+
Aniline	+	+	1,4 Dioxane		-	Potassium chloride	+	+
Arsenicacids	+		Diphenylether	+	+	Potassium dichromate	+	+
Ascorbicacids	+	+	 Ethanol	+	+	Potassium hydroxide	+	+
Bariumbromi de	+	+	 Ethanolamine	+	+	Potassium permanganate	+	+
Barium chlorid	+	+	Ethylacetate	+		Potassium sulfate	+	+

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	SCI-Spense2	SCI-Spene iFlow	en la		SCI-Spense2	SCI-Spene iFlow :T-::2	anu		SCI-Spense2	SCI-Spene iFlow iTrite
Benzaldehyde	+	+		Ethylbenzene	-			Propionic	+	+
Benzene	+	+		Ethylene diamine	+	+		Propylene glycol (Propanediol)	+	+
Benzoyl chloride	+	+		Ethylmethylket on	+	+		Pyridine	+	+
benzyl alcohol	+	+		Fluorine acetic acid				Pyruvic acid	+	+
Bitteralmond oil	+			formaldehyde , ≪40%	+	+		Salicylaldehyde	+	+
Bnzylamine	+	+		Formamide	+	+		Scintillation cocktail	+	+
Benzylchlorid	+	+		Formic acid	+			Silver acetate	+	+
Boric acid ,10%	+	+		Glycerin	+			Silver nitrate	+	+
Bromine	-	-		Glycerol	+			Sodium hydroxide , 30%	+	+
Bromobenzen e	+	+		Glucose	+			Sodium hypochlorite	+	+
Bromonaphth alene	+	+		Glycol (Ethylene glycol)	+			Sulfuric acid , 98%	+	-
Butanediol	+	+		Glycolic acid , ≤50%	+	+		Tartaric acid	+	+
Butanetriol	+	+		Heating oil (diesel oil), bp 250-350 °C	+			Tetrachlorethyle ne		-
1-Butanol	+	+		Heptane	+			Tetrahydrofuran (THF)		-
Butyl acetate	+	+		Hexane	+	-		Tetramethylam monium hydroxide	+	
Butyl methyl ether	+	+		Hexanoic	+	+		Toluene		-
Butylamine	+	+		Hexanol	+	+		Trichloroacetic acid		-
Butyric	+	+		Hydroiodic≤ 57% **	+	+		Trichlorobenzen e		-
Calcium carbonate	+	+		hydrobromic	+			Trichloroethane		-
Calciumchlori d	+	+		Hydrochloric acid, 20%	+	+		Trichlorethylen e		-
Calciumhydro xid	+	+		Hydrogen peroxide , ≤35%	+	-		Trichlorotrifluor oethane		-
Calcium hypochlorite	+	+		Isoamylalcohol	+	+		Triethanolamine	+	+
Tetrachlorkoh lenstoff	+	+		Isobutanol	+	+		Triethylamine	+	
chloronaphtha lene	+	+		Isooctane	+			Triethylene glycol	+	+
Chloroacetald ehyde ,45%	+	+		Isopropanol (2-propanol)	+	+		Trifluoroethane		-
Chloroacetic acid	+	+		Isopropylether	+	+		Trifluoroacetic acid		-
Chloroaceton e	+	+		Lactic acid	+	+		Urea	+	+
Chlorobenzen e	+	+		Methanol	+			Xylene		-
Chlorobutane	+	+		Methoxybenzen e	+	+		Zinc chloride, $\leq 10\%$	+	+
Chloroform	-	-		Methyl benzoate	+	+		Zinc sulfate, ≤10%	+	+
Chlorosulfonic acid		-		Methyl formate	+	+		Cumol (Isopropylbenzol)	+	+

1. Hydrochoric acid – in the presence of oxidising may cause slight attack on prolonged boiling.

2. Sulphuric acid – will dull the surface with prolonged heating at above 250°C.

3. Nitric acid (fuming) – may dull the surface with prolonged heating.

4. Phosphoric acid – may dull the surface with prolonged heating.

5. Potassium hydroxide – the fused salt will cause slight attack.

6. Sodium hydroxide – the fused salt will cause slight attack.

7. Hydrogen peroxide 30% - in the presence of hydrochloric acid may cause slight attack on prolonged boiling.

8. Ammonia – heating in an ammonia atmosphere will darken and dull the surface, leading to a porous crystalline appearance.

9. Chlorine – in the presence of hydrochloric acid may cause slight attack on prolonged boiling.

10. Potassium permanganate – in the presence of hydrochloric acid may cause slight attack on prolonged boiling.

11. Sodium carbonate – the fused salt may cause slight attack.

12. Mercury – will readily attack at any temperature.

13. Silver nitrate – the fused salt may cause slight attack and discolour the surface.

14. Organic compounds- the pretest experiments should be done as there is almost no related data about majority of the organic compounds.