

Low-profile dispensers

The Acurex™ compact 501

Compact dispensers for safe reagent handling, adapted to refrigerator storage as well as water bath heating.
Dosing mechanism entirely protected inside reservoir.
Manufactured and tested to fully comply with the latest regulations on instrument safety and precision.
Volumes range from 0.2 to 30 mL.
Two-year warranty.

- Integrated dosing mechanism
- Simple, robust construction
- Retractable graduated column reduces instrument height
- Fluid path materials excluding any metal
- Choice of four reservoir sizes
- Fully autoclavable at 121°C / 250°F

501

0.2 - 2 mL
 0.4 - 5 mL
 1 - 10 mL
 1 - 30 mL



Space saving low profile

The graduated column is retractable for height reduction, making the dispenser ideal for storage in refrigerators.



Glass reservoir

Amber glass offers optimal light protection.



Autoclavable extension tubing

PTFE Jet-Pen™ and tubing help dispense into vessels with maximum comfort within a 60 cm distance. For 1 and 2 L reservoirs (Cat. No. 1.523).

Performance and ordering information

Volume	Division	Imprecision (CV%)			Reservoir capacity	Cat. No.
		Min. vol.	Mid. vol.	Max. vol.		
0.2 - 2 mL	0.1 mL	< 0.5 %	< 0.35 %	< 0.1 %	250 mL	501.02025
0.2 - 2 mL	0.1 mL	< 0.5 %	< 0.35 %	< 0.1 %	1000 mL	501.021
0.2 - 2 mL	0.1 mL	< 0.5 %	< 0.35 %	< 0.1 %	2000 mL	501.022
0.4 - 5 mL	0.2 mL	< 0.5 % ¹	< 0.35 %	< 0.1 %	500 mL	501.0505
0.4 - 5 mL	0.2 mL	< 0.5 % ¹	< 0.35 %	< 0.1 %	1000 mL	501.051
0.4 - 5 mL	0.2 mL	< 0.5 % ¹	< 0.35 %	< 0.1 %	2000 mL	501.052
1 - 10 mL	0.2 mL	< 0.5 %	< 0.35 %	< 0.1 %	1000 mL	501.101
1 - 10 mL	0.2 mL	< 0.5 %	< 0.35 %	< 0.1 %	2000 mL	501.102
1 - 30 mL	1.0 mL	< 0.5 % ²	< 0.35 %	< 0.1 %	2000 mL	501.302

Performance values obtained with bidest. water at constant temperature ($\pm 0.5^\circ\text{C}$) comprised between 20 and 25°C in accordance with ISO 8655. ¹measured at 0.5 mL ²measured at 3 mL

Chemically inert materials

All parts in contact with the liquid are made from chemically inert materials.

Parts	Materials
Valve	Pyrex glass and synthetic ruby
Barrel	Neutral glass
Plunger	FEP-coated glass
Reservoir	Amber glass
Delivery jet and union	PTFE / ETFE / PFA



View chart

Microdispenser and dispenser chemical resistance chart



Chemicals A - H	Acura 865	Acurex 501	Calibrex 520	Calibrex 525	Calibrex 530
Acetaldehyde (Ethanal)		+	++	++	++
Acetic acid 96%	+	+	++	++	+
Acetic acid 100% (Glacial)	+	++	++	+	+
Acetone (Propanone)		++	+	++	++
Acetonitrile (MECN)	+	++	++	+	+
Acetyl chloride		+	+	+	+
Amino acids		+	++		++
Ammonium chloride	+	+	++		++
Ammonium hydroxide (amonia)		++	++	+	+
Amyl alcohol (Pentanol)	++	++	++	++	++
Aniline	+	++	++	++	++
Ascorbic acid	+	++	++		++
Benzaldehyde		++	++	++	++
Benzene		++	+	+	+
Boric acid 10%	+	++	++	+	++
Bromine	+	+	+		
Butanol	+	++	++	++	++
Butanone (MEK)		++			
Butyl acetate		++	++	+	+
N-Butylamine		+	+	+	+
Butyric acid	+	+	+	+	+
Calcium chloride	+	+	++		++
Calcium hydroxide	+	+	+		+
Carbon disulfide	+	++	++	+	+
Carbon tetrachloride		++	++	+	+
Chlorine dioxide			+	+	+
Chlorobenzene	+	++	++	+	+
Chlorobutane	+	++	++	+	+
Chloroethanol	+	++	++	+	+
Chloroform			+	+	+
Chlorosulfuric acid 100%			+	+	+
Chromic acid 100%	+	+	+	+	+
Citric acid	++	++	++	+	++
Copper sulfate	+	+	++		++
Cyclohexane	+	++	++	+	+
Cyclohexanone		++	++	+	+
Cyclopentane	+	+	+	+	+
1,4-Dioxane (Diethylene dioxide)		++	++	+	+
Dichloroacetic acid		+	++	++	++
Dichlorobenzene	+	++	++	++	++
Dichloroethane (DCE)	+	+	+	++	++
Dichloromethane (DCM)	+	+	+	+	+
Diesel oil (Heating oil)	+	++	++	++	++
Diethylene glycol	+	++	++	++	++
Diethylether		++	++	+	+
Dimethyl sulfoxide (DMSO)	+	++	++	+	+
Dimethylformamide (DMF)		++	+	+	+
Essential oils		+	+	+	+
Ethanol	+	++	++	++	++
Ether		++	+	+	+
Ethyl acetate		++	++	+	+
Ethylenediamine		++	++	++	++
Ethylene glycol	+	++	++	++	++
Formaldehyde (Formalin)	++	++	++	++	++
Formamide	+	++	++	++	++
Formic acid		++	++	++	++
Gamma-butyrolactone		++	++	++	++
Gasoline		++	++	+	+
Glycerin <40%	++	++	++	++	++
Heptane	+	++	++	++	++
Hexane	+	++	++	++	++
Hydrochloric acid <20%	+	+	++	++	++
Hydrochloric acid 37% (HCl)		+	++	+	+
Hydrofluoric acid (HF)					
Hydrogen peroxide	+	++	++	++	+



Chemicals I - Z	Acura 865	Acurex 501	Calibrex 520	Calibrex 525	Calibrex 530
Iodine	+	++	++		+
Isooctane	+	++	++	++	++
Isopropanol	++	++	++	++	++
Isopropylamine	+	++	++	+	+
Lactic acid		++	++		++
2-Methoxyethanol	+	++	++	++	++
Methanol	++	++	++	++	++
Methyl chloride (Chloromethane)		+	+	+	+
Methyl methacrylate (MMA)		++	++	+	+
Methyl propyl ketone (2-Pentanone)		+	+	++	++
Methylene chloride (Dichloromethane) (DCM)		++	+	+	+
Nitric acid >70%		+			
Nitric acid 30-70%	+	+	+	+	+
Nitro-hydrochloric acid (Aqua regia)		+	+	+	+
N-methyl-2-pyrrolidone (NMP)	+	++	++	++	++
Octane	+	++	++	++	++
Octanol	++	++	++	++	++
Oil, mineral (engine oil)	++	++	++	++	++
Oil, vegetable, animal	+	++	++	+	+
Oil of turpentine	+	++	++	+	+
Oxalic acid	+	++	++		++
Pentane	+	+	+	+	+
Perchloric acid 100%	+	+	+	+	+
Perchloric acid diluted	+	++	++	++	++
Petroleum	+	++	++	+	+
Petroleum ether / spirit		++	++	+	+
Phenol	+	++	++	++	++
Phenylhydrazine	+	++	++	+	+
Phosphoric acid 100%	+	++	++	++	++
Potassium chloride		+	++		++
Potassium dichromate	+	++	++		+
Potassium hydroxide	+	+	+		++
Potassium iodide	+	++	++		++
Potassium permanganate		++	++		+
Propionic acid (Propanoic acid)	+	++	++	++	++
Propylene glycol (Propane-1,2-diol)	++	++	++	++	++
Picric acid (Trinitrophenol)	+	++	++	+	+
Pyridine		+	+	+	+
Scintillation fluid	+	++	++	++	++
Silver nitrate		++	+		++
Sodium acetate		++	++		++
Sodium chloride (Kitchen salt)	+	+	++		++
Sodium hydroxide 30%		+	++		+
Sodium hypochlorite (Javel water)		++	++		+
Sodium thiosulfate	+	++	++		++
Sulfuric acid <60%	+	++	+	++	++
Sulfuric acid >60%	+	+	+	+	+
Terebentine oil	+	++	++	++	++
Tetrachloroethylene	+	+	+	+	+
Tetrahydrofuran (THF)		+	+	+	+
Toluene		++	+	++	++
Trichlorethylene		++	++	+	+
Trichloroacetic acid		++	++	+	+
Trichloroethane		+	+	+	+
Trichloromethane (Chloroform)	+	+	+	+	+
Triethylene glycol	+	++	++	++	++
Trifluoroacetic acid (TFA)	+	+	+	+	
Urea		+	+		+
Xylene		++	+	+	+

++ Good resistance + Acceptable with limitation