

TECHNICAL DATA SHEET

Item numbers: 7.697 100 – 7.697 105

LABSOLUTE® DISPOSABLE CUVETTES

PROPERTIES

The LABSOLUTE® disposable plastic cuvettes for the VIS and UV range feature thin walls and an optimized design that ensures excellent heat transfer, resulting in significantly enhanced photometric performance.

Layer thickness: 10 mm (± 0.1 mm)

External dimensions: 12.5 x 12.5 x 45 mm

Dimensions according to DIN 58 963 'Cells for photometric measurements - Disposable rectangular cells made of plastics, dimensions, requirements'.



TABLE OF VALUES

Item no.	Cuvette type	Volume (ml)	Wavelength range (nm)	Qty / PU (pcs.)
7.697 100	PS, Macro	2.5 – 4.5	340 – 900	100
7.697 101	PS, Semi-micro	1.5 – 3.0	340 – 900	100
7.697 102	PMMA, Macro	2.5 – 4.5	300 – 900	100
7.697 103	PMMA, Semi-micro	1.5 – 3.0	300 – 900	100
7.697 104	UV, Macro	2.5 – 4.5	220 – 900	100
7.697 105	UV, Semi-micro	1.5 – 3.0	220 – 900	100

Abbreviations:

PS	Polystyrene
PMMA	Polymethyl methacrylate
UV	Ultraviolet
PK	Packaging

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CHEMICAL RESISTANCE

Solvent / Chemical	7.697 100	7.697 102	7.697 104
	7.697 101	7.697 103	7.697 105
Acetone	-	-	+
Aldehydes	-	0	0
Alcohols, aliphatic	+	-	+
Ammonia	+	+	+
Benzaldehyde	-	-	+
Butanone	-	-	+
Chloroform	-	-	-
Dioxane	-	-	+
DMF	-	-	+
Acetic acid (100%)	-	-	+
Ester	-	0	0
Ethyl acetate	-	-	+
Ether (open-chain)	-	-	-
Hydrofluoric acid (10%)	+	+	+
Hexane	-	+	-
Isopropanol	+	+	+
Hydrocarbons, aliphatic	-	+	+
Benzene	-	-	-
Halogenated hydrocarbons	-	-	-
Natronlauge	+	+	+
Oxidising acids, oxidising agents	-	-	+
Nitric acid (65%)	-	-	+
Hydrochloric acid (36%)	+	-	+

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Explanation on the chemical resistance:

+	=	Very good chemical resistance Constant exposure (test up to 30 days) = no damage.
o	=	Good to limited chemical resistance Constant exposure (tested within the period from day 7 to day 30) = minor damage, some of which is reversible (softening, swelling, loss of mechanical strength, discolouration).
-	=	Low chemical resistance Not suitable for permanent exposure to the named materials. Damage can occur immediately (e.g. loss of mechanical strength, deformation, discolouration, cracks, dissolution).

Updated: 21 May 2026