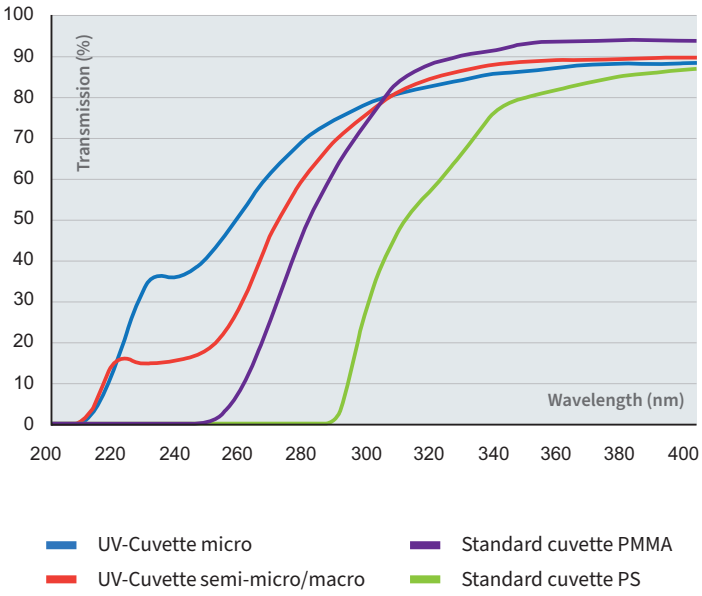
Overview of transmission properties and chemical resistance of cuvettes

Transmission curves of different cuvettes



To achieve reproducible results: Before the actual measurement, always determine the blank value for the cuvette, and determine the linear range of measurement by means of a calibration curve.

Chemical resistance* of plastic cuvettes

Substance	PS	PMMA	UV-Cuvette
Acetic acid, 100%	–	–	+
Acetone	–	–	+
Ammonia	+	+	+
Benzaldehyde	–	–	+
Butanone	–	–	+
Chloroform	–	–	–
Dioxane	–	–	+
DMF	–	–	+
Ethyl acetate	–	–	+
Hexane	–	+	–
Hydrochloric acid, 36%	+	–	+
Hydrofluoric acid, 10%	+	+	+
Isopropanol	+	+	+
Nitric acid, 65%	–	–	+
Sodium hydroxide	+	+	+

* Short time resistance, 30 min. Longer-term storage of these chemicals should be confirmed by the user. Request a free sample.

Overview table

Cuvette type	Filling volume min.	Filling volume max.	Dimensions window (w x h)	Range of application	Standard deviation in extinction units
UV-Cuvette micro, z = 8.5	70 µl	850 µl	2 x 3.5 mm (min.)	**from 230 to 900 nm**	**240 nm ≤ ± 0.007 300 nm ≤ ± 0.005**
UV-Cuvette micro, z = 15	70 µl	550 µl	2 x 3.5 mm (min.)		
UV-Cuvette macro	2.5 ml	4.5 ml	10 x 35 mm		
UV-Cuvette semi-micro	1.5 ml	3.0 ml	4.5 x 23 mm		
macro cuvette (PMMA)	2.5 ml	4.5 ml	10 x 35 mm	**from 300 to 900 nm**	**320 nm ≤ ± 0.004**
semi-micro cuvette (PMMA)	1.5 ml	3.0 ml	4.5 x 23 mm		
macro cuvette (PS)	2.5 ml	4.5 ml	10 x 35 mm	**from 340 to 900 nm**	**360 nm ≤ ± 0.005**
semi-micro cuvette (PS)	1.5 ml	3.0 ml	4.5 x 23 mm		
macro cuvette (PS) 4 clear sided	2.5 ml	4.5 ml	10 x 35 mm	**from 340 to 900 nm**	**360 nm ≤ ± 0.005**
UV-Cuvette macro 4 clear sided	2.5 ml	4.5 ml	10 x 35 mm	**from 230 to 900 nm**	**240 nm ≤ ± 0.007 300 nm ≤ ± 0.005**

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