



INM - Instituto Nacional de Metrología

Volume

Calibration and Measurement Capability (CMC)

Calibration or Measurement Service			Measurand Level or Range			Expanded Uncertainty					Reference Standard used in calibration	
Quantity/ Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	Standard	Source of traceability
Volume of liquid	Volumetric test measure (Micropipette)	Gravimetric determination	0,001	0,01	cm ³	2	%	2	95%	SI	Mettler Toledo XP 26PC d= 0,001 mg	INM Colombia
Volume of liquid	Volumetric test measure (Micropipette)	Gravimetric determination	0,01	1	cm ³	0,015	%	2	95%	SI	Mettler Toledo XP205 d= 0,01 mg	INM Colombia
Volume of liquid	Volumetric test measure (laboratory glassware)	Gravimetric determination	0,1	100	cm ³	0,04	%	2	95%	SI	Mettler Toledo XP205 d= 0,01 mg	INM Colombia
Volume of liquid	Volumetric test measure (Pycnometer)	Gravimetric determination	25	100	cm ³	0,004	%	2	95%	SI	Mettler Toledo XP205 d= 0,01 mg	INM Colombia
Volume of liquid	Volumetric test measure (laboratory glassware)	Gravimetric determination	100	250	cm ³	0,04	%	2	95%	SI	Mettler Toledo AT400 d= 0,1 mg	INM Colombia
Volume of liquid	Volumetric test measure (laboratory glassware)	Gravimetric determination	250	1000	cm ³	0,04	%	2	95%	SI	Mettler Toledo PM2000 d= 1 mg	INM Colombia

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Volume of liquid	Volumetric test measure (laboratory glassware)	Gravimetric determination	1000	5000	cm ³	0,04	%	2	95%	SI	Mettler Toledo PR8002 d= 0,1 g	INM Colombia
Volume of liquid	Volumetric test measure (graduated neck type)	Gravimetric determination	1	10	dm ³	0,04	%	2	95%	SI	Mettler Toledo XP64001 d= 0,1 g	INM Colombia
Volume of liquid	Volumetric test measure	Gravimetric determination	10	100 **	dm ³	0,006	%	2	95%	SI	Mettler Toledo Balance ID1 Plus d= 1 g	INM Colombia
Volume of liquid	Volumetric test measure (graduated neck type)	Gravimetric determination	50	1000 **	dm ³	0,015	%	2	95%	SI	Mettler Toledo XP6002 KL d =10 g	INM Colombia
Volume of liquid	Volumetric test measure (graduated neck type)	Volumetric transfer *	50	2000	dm ³	0,03	%	2	95%	No	volumetric measure 50 dm ³ Brener	INM Colombia

Last updated April 04, 2017

* On-site service

** The laboratory does not provide calibration services in the range of 100L to 500L for lack of standards by the gravimetric method.