

Volumen

Calibration and Measurement Capability (CMC)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration		Service Identifier
Quantity/ Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	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	Temperature	19 °C to 21 °C	4.0 al 2.0	%	2	0.95	Yes	Mettler Toledo XP 26PC d= 0,001 mg	INM Colombia	INM-L06-01
						Humidity	40% to 60 %								
						Pressure	700 hPa to 800 hPa								
Volume of liquid	Volumetric test measure (Micropipette)	Gravimetric determination	0.01	1	cm ³	Temperature	19 °C to 21 °C	0.015	%	2	95%	Yes	Mettler Toledo XP205 d= 0,01 mg	INM Colombia	INM-L06-02
						Humidity	40% to 60 %								
						Pressure	700 hPa to 800 hPa								
Volume of liquid	Volumetric test measure (laboratory glassware)	Gravimetric determination	0.1	100	cm ³	Temperature	19 °C to 21 °C	0.04	%	2	95%	Yes	Mettler Toledo XP205 d= 0,01 mg	INM Colombia	INM-L06-03
						Humidity	40% to 60 %								
						Pressure	700 hPa to 800 hPa								
Volume of liquid	Volumetric test measure (Pycnometer)	Gravimetric determination	25	100	cm ³	Temperature	19 °C to 21 °C	0.004	%	2	95%	Yes	Mettler Toledo XP205 d= 0,01 mg	INM Colombia	INM-L06-04
						Humidity	40% to 60 %								
						Pressure	700 hPa to 800 hPa								
Volume of liquid	Volumetric test measure (laboratory glassware)	Gravimetric determination	100	250	cm ³	Temperature	19 °C to 21 °C	0.04	%	2	95%	Yes	Mettler Toledo MS304S d= 0,1 mg	INM Colombia	INM-L06-05
						Humidity	40% to 60 %								
						Pressure	700 hPa to 800 hPa								
Volume of liquid	Volumetric test measure (laboratory glassware)	Gravimetric determination	250	1000	cm ³	Temperature	19 °C to 21 °C	0.04	%	2	95%	Yes	Mettler Toledo PM2000 d= 10 mg	INM Colombia	INM-L06-06
						Humidity	40% to 60 %								
						Pressure	700 hPa to 800 hPa								
Volume of liquid	Volumetric test measure (laboratory glassware)	Gravimetric determination	1000	5000	cm ³	Temperature	19 °C to 21 °C	0.04	%	2	95%	Yes	Mettler Toledo PR8002 d= 10 mg	INM Colombia	INM-L06-07
						Humidity	40% to 60 %								
						Pressure	700 hPa to 800 hPa								

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Quantity/ Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	Standard	Source of traceability	
Volume of liquid	Volumetric test measure (graduated neck type)	Gravimetric determination	1	10	dm ³	Temperature	19 °C to 22 °C	0.010	%	2	95%	Yes	Mettler Toledo XP64001 d= 0,1 g	INM Colombia	INM-L06-08
						Humidity	40% to 60 %								
						Pressure	700 hPa to 800 hPa								
Volume of liquid	Volumetric test measure (graduated neck type)	Gravimetric determination	10	100	dm ³	Temperature	19 °C to 22 °C	0.015	%	2	95%	Yes	Mettler Toledo Balance ID1 Plus d= 1 g	INM Colombia	INM-L06-09
						Humidity	40% to 60 %								
						Pressure	700 hPa to 800 hPa								
Volume of liquid	Volumetric test measure (overflow type pipette)	Gravimetric determination	5	50	dm ³	Temperature	19 °C to 22 °C	0.005	%	2	95%	Yes	Mettler Toledo XP64001 d= 0,1 g	INM Colombia	INM-L06-10
						Humidity	40% to 60 %								
						Pressure	700 hPa to 800 hPa								
Volume of liquid	Volumetric test measure (graduated neck type)	Volumetric transfer	50	2000	dm ³	Temperature	Environmental Conditions	0.02	%	2	95%	Yes	Medida Volumetrica patron 50 dm3 Brener	INM Colombia	INM-L06-12
						Humidity	40% to 60 %								
						Pressure	700 hPa to 800 hPa								

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