

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **K 109**

of **VWR International B.V.**
Avantor Services

This annex is valid from: **01-03-2022** to **01-06-2023**

Replaces annex dated: **28-10-2020**

Location(s) where activities are performed under accreditation

Head Office

Heinz Moormannstraat 4
5831 AW
Boxmeer
The Netherlands

Location	Abbreviation/ location code
Heinz Moormannstraat 4 5831 AW Boxmeer The Netherlands	NL
Brynsalleen 4 0667 Oslo Norway	NO
Geldenaaksebaan 464 3001 Leuven Belgium	BE
Tobaksvejen 21 2860 Søborg Denmark	DN
John-Deere-Straße 7 76646 Bruchsal Germany	DE
On-site at the customer	NL-O, BE-O, DN-O, DE-O

This annex has been approved by the Board of the
Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
MW 1 0	MASS			Starting from DUT resolution:	
MW 1 2	Weighing instruments	(1 – 5) mg	9 µg	0.1 µg	NL-O, BE-O
		(5 – 10) mg	9 - 11 µg		
		(10 – 20) mg	11 - 14 µg		
		(20 – 50) mg	14 - 17 µg		
		(50 – 100) mg	17 - 23 µg		
		(100 – 200) mg	23 - 29 µg		
		(200 – 500) mg	29 - 36 µg		
		(500 – 1000) mg	36 - 43 µg		
		(1 – 2) g	0.04 – 0.06 mg		
		(2 – 5) g	0.06 – 0.08 mg	1 µg	
		(5 – 10) g	0.09 – 0.11 mg	10 µg	
		(10 – 20) g	0.11 – 0.15 mg		
		(20 – 50) g	0.15 – 0.24 mg		
		(50 – 100) g	0.24 – 0.44 mg		
		(100 – 200) g	0.44 – 0.84 mg		
		(200 – 500) g	0.9 – 2.2 mg	0.1 mg	
		(500 – 1000) g	3.0 – 4.8 mg	1 mg	
		(1000 – 2000) g	4.8 - 17 mg		
		(2000 – 5000) g	17 – 42 mg		
		(5 – 10) kg	48 – 87 mg	10 mg	
		(10 – 14) kg	0.087 – 0.12 g		
		(14 – 20) kg	0.27 – 0.32 g	100 mg	
		(20 – 50) kg	0.32 – 0.62 g		
		(50 – 70) kg	0.62 – 0.85 g		

¹ Calibration and Measurement Capability (CMC): Demonstrated measurement uncertainty, with coverage probability of 95%, in a given measurement point or measurement range. Measurement uncertainty, U , is calculated according to EA-4/02 "Evaluation of the Uncertainty of Measurement in Calibration".

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		(70 to 100) kg	3.0 to 4.2 g	0.2 g	
		(100 to 150) kg	41 g	10 g	
		(150 to 200) kg	64 g	100 g	
DV 1 0	DENSITY AND VISCOSITY				
DV 1 1	Mass, volume and density of gases and liquids				
	Mechanically and electronically Piston-operated volumetric apparatus	(0.1 – 30) µl	0.040 µl		NL-O, DN-O, BE-O
		(0.1 – 2) µl	0.007 µl		NL, NO, DE-O
		(2 – 5) µl	0.008 µl		NL, NO, DE-O
		(5 – 10) µl	0.014 µl		NL, NO, DE-O
		(10 – 30) µl	0.040 µl		NL, NO, DE-O
		(30 – 45) µl	0.070 µl		NL, NO, BE-O, NL-O, DN-O, DE-O
		(45 – 55) µl	0.085 µl		
		(55 – 65) µl	0.095 µl		
		(65 – 80) µl	0.001 44·V		
		(80 – 100) µl	0.001 41·V		
		(100 – 180) µl	0.001 39·V		
		180 µl – 130 ml	0.001 35·V		
		(130 – 160) ml	0.10 ml		NL, NL-O
		(160 – 180) ml	0.12 ml		
		(180 – 200) ml	0.13 ml		
		(200 – 220) ml	0.14 ml		

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HCS code	Measured quantity, Range	Frequency	CMC ¹	Remarks	Location
TE 0 0	TEMPERATURE				
TE 1 2	Platinum resistance sensors	-90 °C to 125 °C	0.13 K	Dry-block calibrator	NL
		-60 °C to 250 °C	0.07 K	Liquid bath	
		250 °C to 500 °C	1.61 K	Tube furnace	
		500 °C to 850 °C	2.65 K		
TE 4 1	Thermometers with read-out	-60 °C to 250 °C	0.07 K	Liquid bath	NL
		-35 °C to 140 °C	0.31 K	Climate cabinet	
		250 °C to 500 °C	1.62 K		
		500 °C to 800 °C	2.41 K	Tube furnace	
		800 °C to 1000 °C	2.66 K		
		-90 °C to 125 °C	0.13 K	Dry-block calibrator	NL
		-90 °C to 125 °C	0.21 K	Dry-block calibrator	NL-O
TE 4 2	Liquid-in-glass thermometers	-80 °C to -60 °C	0.40 K	Liquid bath	NL
		-60 °C to 250 °C	0.07 K		
TE 12 0	Temperature controlled chambers	-90 °C to 250 °C	0.16 K	One point calibration	NL, NL-O
		-90 °C to -60 °C	0.27 K	Multipoint calibration	
		-60 °C to 180 °C	0.21 K		
TE 13 0	Other temperature enclosures	-90 °C to 250 °C	0.16 K	One point calibration	NL, NL-O
		-90 °C to -60 °C	0.27 K	Multipoint calibration	
		-60 °C to 180 °C	0.21 K		

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HCS code	Measured quantity, Range	Frequency	CMC¹	Remarks	Location
		0 °C to 100 °C	0.19 K	Thermocycler; direct measurement in block	

Remarks:

The temperature of the environment for the calibration in the laboratory is nominal 20 °C.