

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: **03-07-2024** to **01-06-2027**

Replaces annex dated: **25-05-2023**

**Location(s) where activities are performed under accreditation**

**Head Office**

Heinz Moormannstraat 4  
5831 AW  
Boxmeer  
The Netherlands

<b>Location</b>	<b>Abbreviation/ location code</b>
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 5 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

of **VWR International B.V.**  
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HCS code	Measured quantity, Range	Range	CMC <sup>1</sup>	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, DN-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		

<sup>1</sup> 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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MW 1 2	Weighing instruments	(70 to 100) kg	3,0 to 4,2 g	0,2 g	NL-O, BE-O, DN-O
		(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		
		(5 – 10) µl	0,014 µl		
		(10 – 30) µl	0,040 µl		
		(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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TE 0 0	TEMPERATURE				
TE 1 2	Platinum resistance sensors	-90 °C to 125 °C	0,13 °C	Dry-block calibrator	NL
		-60 °C to 250 °C	0,07 °C	Liquid bath	NL
		250 °C to 500 °C	1,61 °C	Tube furnace	NL
		500 °C to 850 °C	2,65 °C		
TE 4 1	Thermometers with read-out	-60 °C to 250 °C	0,07 °C	Liquid bath	NL
		-35 °C to 140 °C	0,31 °C	Climate cabinet	NL
		250 °C to 500 °C	1,62 °C	Tube furnace	NL
		500 °C to 800 °C	2,41 °C		
		800 °C to 1000 °C	2,66 °C		
		-90 °C to 125 °C	0,13 °C	Dry-block calibrator	NL
		-90 °C to 125 °C	0,21 °C	Dry-block calibrator	NL-O
TE 4 2	Liquid-in-glass thermometers	-80 °C to -60 °C	0,40 °C	Liquid bath	NL
		-60 °C to 250 °C	0,07 °C		
TE 12 0	Temperature controlled chambers	-90 °C to 250 °C	0,16 °C	One point calibration	NL, NL-O, BE-O
		-90 °C to -60 °C	0,31 °C	Multipoint calibration	NL, NL-O, BE-O
		-60 °C to 180 °C	0,26 °C		

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TE 13 0	Other temperature enclosures	-90 °C to 250 °C	0,16 °C	One point calibration	NL, NL-O, BE-O
		-90 °C to -60 °C	0,31 °C	Multipoint calibration	NL, NL-O, BE-O
		-60 °C to 180 °C	0,26 °C		
		20 °C to 100 °C	0,19 °C	Thermocyclers, thermomixers, heating blocks; multipoint calibration with direct measurement in block	NL, NL-O

Remarks:

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