

When an uncertainty range is given, the expanded uncertainty range is expressed as the uncertainty of the smallest value of the quantity to the uncertainty of the largest value of the quantity.

The expanded uncertainties correspond to $k = 2$ (level of confidence 95%)

NMI Service Identifier	Measurement Service Category	Matrix	Mesurand		Dissemination Range of Measurement Capability			Range of Expanded Uncertainties as Disseminated					Range of Certified Values in Reference Materials			Range of Expanded Uncertainties for Certified Value					Mechanism(s) for Measurement Service Delivery	Comments	Approval date
			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Is the expanded uncertainty a relative one?					
4-10a	Environmental	nitrogen	carbon monoxide	Amount-of-substance fraction	0.05	5	mmol/mol	1.0	0.4	%	Yes	0.05	5	mmol/mol	1.0	0.4	%	Yes	SRGM-064, SRGM-065, SRGM-066, SRGM-067 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis	Approved on 06 December 2011		
4-10b	Environmental	purified air	carbon monoxide	Amount-of-substance fraction	0.05	5	mmol/mol	1.0	0.4	%	Yes	0.05	5	mmol/mol	1.0	0.4	%	Yes	SRGM-069, SRGM-070 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis	Approved on 06 December 2011		
4-13	Fuel	synthetic natural gas	nitrogen	Amount-of-Substance fraction	50	100	mmol/mol	0.6	0.5	%	Yes	50	100	mmol/mol	0.6	0.5	%	Yes	SRGM-135 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis	Approved on 19 June 2014		
			carbon dioxide	Amount-of-Substance fraction	10	50	mmol/mol	0.8	0.5	%	Yes	10	50	mmol/mol	0.8	0.5	%	Yes					
			ethane	Amount-of-Substance fraction	70	150	mmol/mol	0.3	0.3	%	Yes	70	150	mmol/mol	0.3	0.3	%	Yes					
			propane	Amount-of-Substance fraction	10	50	mmol/mol	0.8	0.5	%	Yes	10	50	mmol/mol	0.8	0.5	%	Yes					
			iso-butane	Amount-of-Substance fraction	5	12	mmol/mol	0.8	0.6	%	Yes	5	12	mmol/mol	0.8	0.6	%	Yes					

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			n-butane	Amount-of-Substance fraction	5	12	mmol/mol	0.8	0.6	%	Yes	5	12	mmol/mol	0.8	0.6	%	Yes			
			methane	Amount-of-Substance fraction	700	980	mmol/mol	0.08	0.05	%	Yes	700	980	mmol/mol	0.08	0.05	%	Yes			
4-14a	Environmental	nitrogen	nitrogen monoxide	Amount-of-substance fraction	30	5000	micromol/mol	1	1	%	Yes	30	5000	micromol/mol	1	1	%	Yes	SRGM-104, SRGM-105, SRGM-106 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis, calibration of gas analysers	Approved on 19 June 2014
4-15a	Environmental	nitrogen	sulfur dioxide	Amount-of-substance fraction	50	10000	micromol/mol	1	1	%	Yes	50	10000	micromol/mol	1	1	%	Yes	SRGM-090 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis, calibration of gas analysers	Approved on 19 June 2014
4-15b	Environmental	synthetic air	sulfur dioxide	Amount-of-substance fraction	50	10000	micromol/mol	1	1	%	Yes	50	10000	micromol/mol	1	1	%	Yes	SRGM-090 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis, calibration of gas analysers	Approved on 19 June 2014
4-16a	Forensic	Nitrogen	Ethanol	Amount-of-substance fraction	50	500	micromol/mol	0.7	0.7	%	Yes	50	500	micromol/mol	0.7	0.7	%	Yes	SRGM-151 plus calibration		Approved on 30 June 2016
4-16b	Forensic	Synthetic air	Ethanol	Amount-of-substance fraction	50	500	micromol/mol	0.7	0.7	%	Yes	50	500	micromol/mol	0.7	0.7	%	Yes	SRGM-151 plus calibration		Approved on 30 June 2016
4-17a	Environmental	nitrogen, synthetic air	propane	Amount-of-substance fraction	1	10	micromol/mol	0.015	0.015	micro mol/mol	No	1	10	micromol/mol	0.015	0.015	micro mol/mol	No	SRGM-029 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis, calibration of gas analysers	Approved on 28 June 2018

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			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Is the expanded uncertainty a relative one?			
4-17b	Environmental	nitrogen, synthetic air	propane	Amount-of-substance fraction	10	500000	micromol/mol	0.15	0.15	%	Yes	10	500000	micromol/mol	0.15	0.15	%	Yes	SRGM-029, SRGM-030, SRGM-031 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis, calibration of gas analysers	Approved on 28 June 2018

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			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Is the expanded uncertainty a relative one?			
4-08	Environmental	nitrogen	carbon dioxide	Amount-of-Substance fraction	40	160	mmol/mol	0.15	0.15	%	Yes	40	160	mmol/mol	0.15	0.15	%	Yes	SRGM-131 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis, calibration of gas analysers	Approved on 28 June 2018
			carbon monoxide	Amount-of-Substance fraction	5	50	mmol/mol	0.2	0.2	%	Yes	5	50	mmol/mol	0.2	0.2	%	Yes			
			propane	Amount-of-Substance fraction	0.03	4	mmol/mol	0.15	0.15	%	Yes	0.03	4	mmol/mol	0.15	0.15	%	Yes			
4.1-1a	High purity	high purity propane	ethane	Amount-of-substance fraction	10	1000	micromol/mol	10	10	%	Yes								Calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards	Approved on 28 June 2018
4.1-1b	High purity	high purity propane	nitrogen	Amount-of-substance fraction	2	50	micromol/mol	20	20	%	Yes								Calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards	Approved on 28 June 2018
4.1-1c	High purity	high purity propane	oxygen	Amount-of-substance fraction	2	50	micromol/mol	20	20	%	Yes								Calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards	Approved on 28 June 2018