

Amount of substance, Gases, Belarus, BELGIM (Belarussian State Institute for Metrology)

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
			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?		
COO-QM-BelGIM-1001	Environmental	nitrogen	carbon monoxide	Amount-of-substance fraction	0.028	0.032	mol/mol	0.7	0.6	%	Yes	0.028	0.032	mol/mol	0.7	0.6	%	Yes	SRM1815-06 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis Approved on 18 June 2007
			carbon dioxide	Amount-of-substance fraction	0.13	0.14	mol/mol	0.8	0.7	%	Yes	0.13	0.14	mol/mol	0.8	0.7	%	Yes		
			propane	Amount-of-substance fraction	0.0019	0.002	mol/mol	1.0	1.0	%	Yes	0.0019	0.002	mol/mol	1.0	1.0	%	Yes		
COO-QM-BelGIM-1002	Environmental	nitrogen	carbon monoxide	Amount-of-substance fraction	0.09	2	mmol/mol	1.5	0.9	%	Yes	0.09	2	mmol/mol	1.5	0.9	%	Yes	SRM 323-07, SRM 324-07, SRM 304-06 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis Approved on 19 July 2010

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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?		
COO-QM-BelGIM-1003	Fuel	methane	nitrogen	Amount-of-substance fraction	50	100	mmol/mol	0.3	0.3	%	Yes	50	100	mmol/mol	0.3	0.3	%	Yes	SRM 2149-09 plus calibration	Calibration service involves calibration of gas mixtures of known composition against primary standards on regular basis Approved on 06 December 2011
			carbon dioxide		10	50	mmol/mol	0.4	0.4	%	Yes	10	50	mmol/mol	0.4	0.4	%	Yes		
			ethane		70	150	mmol/mol	0.4	0.4	%	Yes	70	150	mmol/mol	0.4	0.4	%	Yes		
			propane		10	50	mmol/mol	0.4	0.4	%	Yes	10	50	mmol/mol	0.4	0.4	%	Yes		
			n-butane		5	12	mmol/mol	0.5	0.5	%	Yes	5	12	mmol/mol	0.5	0.5	%	Yes		
			iso-butane		5	12	mmol/mol	0.5	0.5	%	Yes	5	12	mmol/mol	0.5	0.5	%	Yes		