The Appendix is an integral part of
Certificate of Accreditation No. 465/2018 of 03/09/2018

Accredited entity according to ČSN EN ISO 17034:2017:

Český metrologický institut
Manufacturer of Reference Materials
Okružní 31, 638 00 Brno

Locations:

1. **Regional Inspectorate Praha – Department of Primary Metrology of Gaseous Mixtures and Certification of Reference Materials**
   Radiová 3, 102 00 Praha
2. **Regional Inspectorate Brno – Department of Primary Metrology of Physical Chemistry**
   Okružní 31, 638 00 Brno

1. **Regional Inspectorate Praha – Department of Primary Metrology of Gaseous Mixtures and Certification of Reference Materials**

Reference materials:

Ordinal number	Matrix, artefact type	Characterised properties/range		Method of assigning the values of properties/ measurement techniques used
Chemical substances - CRM				
1.	Synthetic natural gas	nitrogen	0.2 – 10 cmol/mol	Gravimetric preparation from pure ingredients [a)]
		carbon dioxide	0.1 – 5 cmol/mol	Gravimetric preparation from pure ingredients [a)]
		methane	70 – 98 cmol/mol	Gravimetric preparation from pure ingredients [a)]
		ethane	0.4 – 1 cmol/mol	Gravimetric preparation from pure ingredients [a)]
		propane	0.1 – 2 cmol/mol	Gravimetric preparation from pure ingredients [a)]
		i-butane	0.04 – 0.1 cmol/mol	Gravimetric preparation from pure ingredients [a)]
		n-butane	0.04 – 0.1 cmol/mol	Gravimetric preparation from pure ingredients [a)]
		i-pentane	0.02 – 0.2 cmol/mol	Gravimetric preparation from pure ingredients [a)]
		n-pentane	0.02 – 0.2 cmol/mol	Gravimetric preparation from pure ingredients [a)]
		neo-pentane	0.02 – 0.2 cmol/mol	Gravimetric preparation from pure ingredients [a)]
		n-hexane	0.01 – 0.1 cmol/mol	Gravimetric preparation from pure ingredients [a)]
2.	Ethanol in nitrogen	ethanol	50 – 800 µmol/mol	Gravimetric preparation from pure ingredients [a)]

Explanations:
cmol/mol is equivalent to 10^{-2} mol/mol
µmol/mol is equivalent to 10^{-6} mol/mol
a) verification by chromatographic method (GC-TCD/FID)

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2. **Regional Inspectorate Brno – Department of Primary Metrology of Physical Chemistry**

Reference materials:

Ordinal number	Matrix, artefact type	Characterised properties/range	Method of assigning the values of properties/measurement techniques used
Chemical substances - CRM			
1.	Aqueous solutions (primary/secondary CRM)	pH 1.679 to 10.012	Measurement by a primary/secondary standard [a)]
2.	Aqueous solutions (primary/secondary CRM)	Electrolytic conductivity 0.005 to 12 S/m	Measurement by a primary/secondary standard [b)]

Explanations:
a) verification by potentiometric method
b) verification by conductometric method