

Accredited entity according to ČSN EN ISO/IEC 17025:2005 and TNI ISO Guide 34:

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

Locations:

1. **Regional Inspectorate Praha** Radiová 1136/3, 102 00 Praha 10 - Hostivař
7. **Regional Inspectorate Brno** Okružní 31, 638 00 Brno

1. **Regional Inspectorate Praha**

Reference materials:

Ordinal number	Matrix, artefact type	Quantity/Nominal property/Range	Characterisation procedure/technique	
Chemical substances - CRM				
1.	Synthetic natural gas	nitrogen	0.2 – 10 cmol/mol	GC-TCD
		carbon dioxide	0.1 – 5 cmol/mol	GC-TCD
		methane	70 – 98 cmol/mol	GC-FID
		ethane	0.4 – 1 cmol/mol	GC-FID
		propane	0.1 – 2 cmol/mol	GC-FID
		i-butane	0.04 – 0.1 cmol/mol	GC-FID
		n-butane	0.04 – 0.1 cmol/mol	GC-FID
		i-pentane	0.02 – 0.2 cmol/mol	GC-FID
		n-pentane	0.02 – 0.2 cmol/mol	GC-FID
		neo-pentane	0.02 – 0.2 cmol/mol	GC-FID
		n-hexane	0.01 – 0.1 cmol/mol	GC-FID
2.	Ethanol in nitrogen	ethanol	50 – 800 µmol/mol	GC-FID/ TOC analyzer

Explanations:

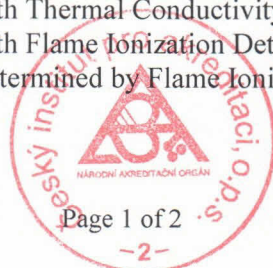
cmol/mol is equivalent to 10^{-2} mol/mol

µmol/mol is equivalent to 10^{-6} mol/mol

GC-TCD Gas Chromatography with Thermal Conductivity Detection

GC-FID Gas Chromatography with Flame Ionization Detection

TOC Total Organic Carbon determined by Flame Ionization Detection



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Chemical substances - CRM			
1.	Aqueous solutions	pH (1.679 to 10.012)	Potentiometry
2.	Aqueous solutions	Electrolytic conductivity (0.005 to 12.00) S.m ⁻¹	Conductometry

