

SRMS Directory

Accreditation number: SRMS 0003

International standard: ISO 17034:2016
 Swiss standard: SN EN ISO 17034:2017

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 Initial accreditation: 01.12.1987
 Current accreditation: 23.06.2023 to 22.06.2028
 Scope of accreditation see: www.sas.admin.ch
 (Accredited bodies)

Scope of accreditation as of 23.06.2023

Producer of certified reference gases

Reference material matrix / artefact	Characterised properties	Type	Approach used to assign property values
Matrix N₂	Binary gas mixture Carbon monoxide (CO) Carbon dioxide (CO ₂) Propane (C ₃ H ₈) Hexane (n - C ₆ H ₁₄) Oxygen (O ₂)	CRM	Gravimetry^{e)}
Matrix N₂	Quaternary gas mixture Carbon monoxide (CO) Carbon dioxide (CO ₂) Propane (C ₃ H ₈)	CRM	Gravimetry^{e)}
Special gas mixtures	Max. 8 components and none of them with an amount-of-substance fraction less than 1•10 ⁻⁶ (mol/mol)	CRM	Gravimetry^{e)} All mixtures containing reactive components (described in 4.2.3 and 4.2.4, ISO 6142) are prepared by a method developed by the laboratory.



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Reference material matrix / artefact	Characterised properties	Type	Approach used to assign property values
Synthetic mixture of natural gas	Amount-of-substance fraction	CRM	Gravimetry^{e)} All mixtures containing reactive components (described in 4.2.3 and 4.2.4, ISO 6142) are prepared by a method developed by the laboratory.
	He		
	CH ₄		
	N ₂		
	C ₂ H ₆		
	O ₂		
	CH ₃ OH		
	H ₂ S		
	CO ₂		
	C ₃ H ₈		
	CH ₃ SH		
	iC ₄ H ₁₀		
	nC ₄ H ₁₀		
	iC ₅ H ₁₂		
	neoC ₅ H ₁₂		
nC ₅ H ₁₂			
nC ₆ H ₁₄			
Specific calorific value of gases	Molar Mass Compression factor Gross Calorific value Net Calorific value Relative Density Density Gross Wobbe Index Net Wobbe Index	CRM	ISO 6976
Matrix N ₂	BTEX mix	CRM	Gravimetry^{e)}
	C ₆ H ₆		
	C ₇ H ₈		
	C ₆ H ₅ C ₂ H ₅		
	o-C ₈ H ₁₀		
	m-C ₈ H ₁₀		
	p-C ₈ H ₁₀		

In case of contradictions in the language versions of the directories, the German version shall apply.



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1) Approaches according to the standard SN EN ISO 17034:2017 § 7.12.3:

- a) using a single reference measurement procedure (as defined in ISO/IEC Guide 99) in a single laboratory
- b) characterization of a non-operationally defined measurand using two or more methods of demonstrable accuracy in one or more competent laboratories
- c) characterization of an operationally defined measurand using a network of competent laboratories
- d) value transfer from an RM to a closely matched candidate RM performed using a single measurement procedure performed by one laboratory
- e) characterization based on mass or volume of ingredients used in the preparation of the RM

Abbreviation	Signification
CRM	Certified reference material

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