



SRMS Directory

Accreditation number: SRMS 0002

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

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Initial accreditation: 18.07.2010
Current accreditation: 18.07.2020 to 17.07.2025
Scope of accreditation see: www.sas.admin.ch/
(Accredited bodies)

Scope of accreditation as of 17.06.2024

Manufacturer of reference gases

Reference material matrix / artefact	Characterised properties	Type	Approach used to assign property values
Matrix N ₂	Binary gas mixtures	CRM	Gravimetry ^{e)}
	Carbon monoxide (CO) Carbon dioxide (CO ₂) Propane (C ₃ H ₈) Oxygen (O ₂) Methane (CH ₄) Hydrogen (H ₂) Nitrous oxide (N ₂ O)		
Matrix Synth. air	Binary gas mixtures	CRM	Gravimetry ^{e)}
	Carbon monoxide (CO) Carbon dioxide (CO ₂) Propane (C ₃ H ₈)		



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Reference material matrix / artefact	Characterised properties	Type	Approach used to assign property values
Matrix Synth. Luft	Binary gas mixtures	CRM	Gravimetry ^{e)}
	Methane (CH ₄)		
Matrix N ₂	Binary mixtures with reactive components	CRM	Gravimetry ^{e)}
	Nitric oxide (NO) ²		
	Sulphur dioxide (SO ₂)		
Matrix Synth. air	Binary mixtures with reactive components	CRM	Gravimetry ^{e)}
	Sulphur dioxide (SO ₂)		
	Nitrogen dioxide (NO ₂)		
Matrix N ₂	Ternary mixture	CRM	Gravimetry ^{e)}
	Methane (CH ₄)		
	Oxygen (O ₂)		
Matrix N ₂	Quaternary mixture	CRM	Gravimetry ^{e)}
	Hydrogen (H ₂)		
	Carbon monoxide (CO)		
	Oxygen (O ₂)		
	Carbon monoxide (CO)		
	Carbon dioxide (CO ₂)		
	Propane (C ₃ H ₈)		
Matrix N ₂	Multi-component mixture	CRM	Gravimetry ^{e)}
	Propane (C ₃ H ₈)		
	Carbon monoxide (CO)		
	Carbon dioxide (CO ₂)		
	Oxygen (O ₂)		
	Nitric oxide (NO)		
	Sulphur dioxide (SO ₂)		
	Propane (C ₃ H ₈)		
	Carbon monoxide (CO)		
	Carbon dioxide (CO ₂)		
	Sulphur dioxide (SO ₂)		

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Reference material matrix / artefact	Characterised properties	Type	Approach used to assign property values
Matrix N₂	Multi-component mixture	CRM	Gravimetry ^{e)}
	Propane (C ₃ H ₈) Carbon monoxide (CO) Carbon dioxide (CO ₂) Oxygen (O ₂)		
Matrix N₂	Gas mixtures with up to six components without reactive components	CRM	Gravimetry ^{e)}

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

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
RM	Reference material
Synth. air	Synthetic air

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