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 23.10.2023

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_3H_8)		
	Hexane (n - C_6H_{14})		
	Oxygen (O_2)		
	Methane (CH_4)		
	Hydrogen (H_2)		
	Nitrous oxide (N_2O)		
Matrix Synth. air	**Binary gas mixtures**	**CRM**	**Gravimetry** [e)]
	Carbon monoxide (CO)		
	Carbon dioxide (CO_2)		
	Propane (C_3H_8)		

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Accreditation number: SRMS 0002

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) Ethanol (C_2H_5OH)		
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_3H_8)		
Matrix N_2	**Multi-component mixture**	**CRM**	**Gravimetry** [e)]
	Propane (C_3H_8) Carbon monoxide (CO) Carbon dioxide (CO_2) Oxygen (O_2)		
	Nitric oxide (NO) Sulphur dioxide (SO_2) Propane (C_3H_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 N_2	**Multi-component mixture**	**CRM**	**Gravimetry** [e)]
	Propane (C_3H_8) Carbon monoxide (CO) Carbon dioxide (CO_2) Oxygen (O_2)		
Matrix N_2	**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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