



SCS Directory

Accreditation number: SCS 0023

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

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Initial accreditation: 16.05.1989
Current accreditation: 26.02.2020 to 25.02.2025
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 24.10.2023

Calibration laboratory for substance percentages in gas mixtures

Calibration and Measurement Capability (CMC)

Binary gas mixtures to ISO 6142:2001

Measured Quantity / Instrument or Gauge	Measurement Range	Best Measure Capability \pm ¹⁾	Remarks
Fraction of substance, matrix N₂			
BINARY MIXTURE			
Carbon monoxide (CO)	40•10 ⁻⁶ ... 500•10 ⁻⁶ (mol/mol)	1 % rel	
	0,05•10 ⁻² ... 5•10 ⁻² (mol/mol)	0,5 % rel	
Carbon dioxide (CO ₂)	5•10 ⁻² ... 15•10 ⁻² (mol/mol)	0,5 % rel	
Propane (C ₃ H ₈)	100•10 ⁻⁶ ... 2000•10 ⁻⁶ (mol/mol)	0,5 % rel	
Hexane (n - C ₆ H ₁₄)	50•10 ⁻⁶ ... 1000•10 ⁻⁶ (mol/mol)	0,5 % rel	
Oxygen (O ₂)	1•10 ⁻² ... 25•10 ⁻² (mol/mol)	0,5 % rel	



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Measured Quantity / Instrument or Gauge	Measurement Range	Best Measure Capability \pm ¹⁾	Remarks
Fraction of substance, matrix N ₂			
Nitric oxide (NO)	30 ... 100•10 ⁻⁶ (mol/mol) 100 ... 160•10 ⁻⁶ (mol/mol)	1,5 % rel 1 % rel	NO ₂ fraction $\leq 0,5 \cdot 10^{-6}$ (mol/mol) Frazione NO ₂ $\leq 0,5 \cdot 10^{-6}$ (mol/mol)

Quaternary gas mixture to ISO 6142:2001

Measured Quantity / Instrument or Gauge	Measurement Range	Best Measure Capability \pm ¹⁾	Remarks
Fraction of substance, matrix N ₂			
QUATERNARY MIXTURE			
Carbon monoxide (CO)	1,5•10 ⁻² (mol/mol)	1 % rel	On each of the values
Carbon dioxide (CO ₂)	11•10 ⁻² (mol/mol)	1 % rel	
Propane (C ₃ H ₈)	600•10 ⁻⁶ (mol/mol)	2 % rel	

Special gas mixtures to ISO 6142:2001

Measured Quantity / Instrument or Gauge	Measurement Range	Best Measure Capability \pm ¹⁾	Remarks
Fraction of substance			
GAS MIXTURES			
	Max. 8 components and none with a fraction less than 1•10 ⁻⁶ (mol/mol)	0,5 % rel	

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

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