



## SCS Directory

Accreditation number: SCS 0023

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

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Internet: [www.linde.ch](http://www.linde.ch)  
Initial accreditation: 16.05.1989  
Current accreditation: 26.02.2025 to 25.02.2030  
Scope of accreditation see: [www.sas.admin.ch](http://www.sas.admin.ch)  
(Accredited bodies)

### Scope of accreditation as of 26.02.2025

#### Calibration laboratory for substance percentages in gas mixtures

##### Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
<b>Fraction of substance matrix N<sub>2</sub></b>				<b>ISO 6142-1:2015</b>
Binary mixture				
Carbon monoxide (CO)	40•10 <sup>-6</sup> ... 500•10 <sup>-6</sup> mol/mol 0,05•10 <sup>-2</sup> ... 5•10 <sup>-2</sup> mol/mol		1 % rel 0,5 % rel	
Carbon dioxide (CO <sub>2</sub> )	5•10 <sup>-2</sup> ... 15•10 <sup>-2</sup> mol/mol		0,5 % rel	
Propane (C <sub>3</sub> H <sub>8</sub> )	100•10 <sup>-6</sup> ... 2000•10 <sup>-6</sup> mol/mol		0,5 % rel	
Hexane (n - C <sub>6</sub> H <sub>14</sub> )	50•10 <sup>-6</sup> ... 1000•10 <sup>-6</sup> mol/mol		0,5 % rel	
Oxygen (O <sub>2</sub> )	1•10 <sup>-2</sup> ... 25•10 <sup>-2</sup> mol/mol		0,5 % rel	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty ± <sup>1)</sup>	Remarks
Nitric oxide (NO)	30 ... 100•10 <sup>-6</sup> mol/mol  100 ... 160•10 <sup>-6</sup> mol/mol		1,5 % rel  1 % rel	NO <sub>2</sub> fraction ≤ 0,5 •10 <sup>-6</sup> mol/mol  NO <sub>2</sub> fraction ≤ 0,5 •10 <sup>-6</sup> mol/mol
<b>Fraction of substance matrix N<sub>2</sub></b>  Quaternary mixture Carbon monoxide (CO)  Carbon dioxide (CO <sub>2</sub> ) Propane (C <sub>3</sub> H <sub>8</sub> )	  1,5•10 <sup>-2</sup> mol/mol  11•10 <sup>-2</sup> mol/mol 600•10 <sup>-6</sup> mol/mol		  1 % rel  1 % rel 2 % rel	<b>ISO 6142-1:2015</b>  On each of the values
<b>Fraction of substance matrix N<sub>2</sub></b>  Special mixtures	  Max. 8 components and none with a fraction < 1•10 <sup>-6</sup> mol/mol		  0,5 % rel	<b>ISO 6142-1:2015</b>

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

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1) The given extended measurement uncertainty is the standard uncertainty of the measurement multiplied by an extension factor k = 2, which corresponds to a confidence level of about 95% for a normal distribution.