



Scott™



ISO17025 Scope of accreditation

of Scott Specialty Gases Netherlands

Binary Mixtures

Component	Balance gas	Concentration range	Best expanded uncertainty	Cylinder material	Stability period [months]
Carbon monoxide (CO)	Nitrogen	150 ppm - 15%	1%	Aluminium	36
Carbon dioxide (CO2)	Nitrogen	200 ppm - 20%	1%	Aluminium	36
Methane (CH4)	Air	1 - 10 ppm	2%	Aluminium	36
Methane (CH4)	Air	10 - 100 ppm	1%	Aluminium	36
Methane (CH4)	Nitrogen	1 - 10 ppm	2%	Aluminium	36
Methane (CH4)	Nitrogen	10 - 100 ppm	1%	Aluminium	36
Propane (C3H8)	Air	10 ppm - 0,33%	1%	Aluminium	36
Nitric oxide (NO)	Nitrogen	1 - 5 ppm	2%	Aluminium	12
Nitric oxide (NO) incl. NOx cert.	Nitrogen	3 - 5 ppm	2% & 2%	Aluminium	12 (NO)
Nitric oxide (NO)	Nitrogen	5 ppm - 0,1%	1%	Aluminium	< 100 ppm 12 >= 100 ppm 36
Nitric oxide (NO) incl. NOx cert.	Nitrogen	5 - 100 ppm	1% & 1%	Aluminium	12 (NO)
Nitrogen dioxide (NO2)	Air	3 - 100 ppm	2%	Aluminium	36 under ISO9001
Nitrogen dioxide (NO2)	Air	100 ppm - 0,1%	1%	Aluminium	36 under ISO9001
Oxygen (O2)	Nitrogen	1 - 25%	1%	Steel (50L) or alu.	36
Sulfur dioxide (SO2)	Nitrogen	50 ppm - 0,5%	1%	Aluminium	< 100 ppm 12 >= 100 ppm 36

Natural gas

Component	Balance gas	Concentration range	Best expanded uncertainty	Cylinder material	Stability period [months]
Nitrogen (N2)		0,1 -20 %	1%		
Carbon dioxide (CO2)		0,05 - 9 %	1%		
Methane (CH4)		70 -92,5%	0,1%		
Ethane (C2H6)		0,3 -11 %	1%		
Propane (C3H8)		0,1 - 5 %	1%		
Isobutane (i-C4H10)		0,05 - 1 %	1%		
(n-)Butane (n-C4H10)		0,03 - 1 %	1%	Aluminium	36
Neopentane (neo-C5H12)		0,005 - 0,285%	1%		
Isopentane (i-C5H12)		0,005 - 0,5%	1%		
(n-)Pentane (n-C5H12)		0,005 - 0,6%	1%		
(n-)Hexane (n-C6H14)		0,005 - 0,4%	1%		

Natural gas properties

Propertie	Best expanded uncertainty
Mean molecular mass	0,10%
Compression factor	0,10%
Calorific value (superior)	0,10%
Relative density	0,10%
Density	0,10%
Wobbe Index	0,10%

Vehicle Emission Exhaust mixture

Component	Balance gas	Concentration range	Best expanded uncertainty	Cylinder material	Stability period [months]
Propane (C3H8)	Nitrogen (N2)	100 - 2000 ppm	1%		
Carbon monoxide (CO)		0,4 - 3,5%	1%	Aluminium	36
Carbon dioxide (CO2)		3 - 14%	1%		