

EURO-GAS

calibration services ltd

REVELSTOKE HOUSE, STOKE ROAD, NOSS MAYO, PLYMOUTH, DEVON, PL8 1EY, ENGLAND

☎ INTERNATIONAL: +44 1752 872222 FAX: +44 1752 872223
E-mail: euro-gas@btconnect.com URL: www.euro-gasman.com

STANDARD CALIBRATION GAS MIXTURES MAY 2010

CONCENTRATION/GAS MIXTURE	PLEASE NOTE:
Acetylene	
0.5% Acetylene Balance Air	
Synthetic Air	
Zero Grade Air (Synthetic Air)	
Ammonia (NH₃)	
25ppm Ammonia Balance Air	
25ppm Ammonia Balance Nitrogen	
50ppm Ammonia Balance Air	
50ppm Ammonia Balance Nitrogen	
100ppm Ammonia Balance Air	
200ppm Ammonia Balance Air	
300ppm Ammonia Balance Air	
500ppm Ammonia Balance Air	
1000ppm Ammonia Balance Air	
5000ppm Ammonia Balance Air	
5.0% Ammonia Balance Air	
Argon	
100% Argon	
Benzene (C₆H₆)	
5ppm Benzene Balance Air	
Butane (C₄H₁₀)	
0.4% Butane Balance Air	
0.6% Butane Balance Air	
0.75% Butane Balance Air (50% LEL)	
0.9% Butane Balance Air	
8.0% Butane Balance Nitrogen	Pressure Restricted**
Iso-Butane (iC₄H₁₀)	
0.6% IsoButane Balance Air	
0.7% IsoButane Balance Air	
0.9% IsoButane Balance Air (50% LEL)	
7.5% IsoButane Balance Nitrogen	Pressure Restricted**
8.0% IsoButane Balance Nitrogen	Pressure Restricted**
10.0% IsoButane Balance Nitrogen	Pressure Restricted**
Carbon Dioxide (CO₂)	
100ppm Carbon Dioxide Balance Nitrogen	
1000ppm Carbon Dioxide Balance Air	
1000ppm Carbon Dioxide Balance Nitrogen	
1500ppm Carbon Dioxide Balance Air	
1500ppm Carbon Dioxide Balance Nitrogen	
2500ppm Carbon Dioxide Balance Air	
3000ppm Carbon Dioxide Balance Nitrogen	
1.0% Carbon Dioxide Balance Air	
3.0% Carbon Dioxide Balance Air	
3.0% Carbon Dioxide Balance Nitrogen	
5.0% Carbon Dioxide Balance Air	
5.0% Carbon Dioxide Balance Nitrogen	

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8.0% Carbon Dioxide Balance Nitrogen	
10.0% Carbon Dioxide Balance Air	
20.0% Carbon Dioxide Balance Air	
50.0% Carbon Dioxide Balance Nitrogen	Pressure Restricted**
50.0% Carbon Dioxide Balance Methane	Pressure Restricted**
100% Carbon Dioxide	Pressure Restricted**
Carbon Monoxide (CO)	
5ppm Carbon Monoxide Balance Air	
20ppm Carbon Monoxide Balance Air	
50ppm Carbon Monoxide Balance Air	
50ppm Carbon Monoxide Balance Nitrogen	
60ppm Carbon Monoxide Balance Air	
60ppm Carbon Monoxide Balance Nitrogen	
100ppm Carbon Monoxide Balance Air	
100ppm Carbon Monoxide Balance Nitrogen	
150ppm Carbon Monoxide Balance Air	
150ppm Carbon Monoxide Balance Nitrogen	
200ppm Carbon Monoxide Balance Air	
200ppm Carbon Monoxide Balance Nitrogen	
250ppm Carbon Monoxide Balance Air	
250ppm Carbon Monoxide Balance Nitrogen	
300ppm Carbon Monoxide Balance Air	
300ppm Carbon Monoxide Balance Nitrogen	
500ppm Carbon Monoxide Balance Air	
500ppm Carbon Monoxide Balance Nitrogen	
1000ppm Carbon Monoxide Balance Air	
1000ppm Carbon Monoxide Balance Nitrogen	
2000ppm Carbon Monoxide Balance Air	
2000ppm Carbon Monoxide Balance Nitrogen	
2500ppm Carbon Monoxide Balance Air	
1.0% Carbon Monoxide Balance Air	
5.0% Carbon Monoxide Balance Air	
5.0% Carbon Monoxide Balance Nitrogen	
100% Carbon Monoxide	
Chlorine (Cl₂)	
5ppm Chlorine Balance Nitrogen	34/58/110 Litre cylinders only Stainless Steel Regulator must be used
10ppm Chlorine Balance Nitrogen	
20ppm Chlorine Balance Nitrogen	
25ppm Chlorine Balance Nitrogen	
Ethane (C₂H₆)	
100% Ethane	Pressure Restricted**
Ethanol (C₂H₆O)	
190ppm Ethanol Balance Nitrogen	Pressure Restricted**
Ethylene (C₂H₄)	
0.8% Ethylene Balance Air	
1.0% Ethylene Balance Nitrogen	

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1.35% Ethylene Balance Air (50% LEL)	
1.35% Ethylene Balance Nitrogen	
100% Ethylene	Pressure Restricted**
Ethylene Oxide (C₂H₄O) (ETO)	
10ppm Ethylene Oxide Balance Air	34/58/110 Litre cylinders only Stainless Steel Regulator must be used
40ppm Ethylene Oxide Balance Air	
100ppm Ethylene Oxide Balance Air	
Freon	
100ppm Freon R22 Balance Air	
500ppm Freon R22 Balance Air	
1000ppm Freon R22 Balance Air	
100ppm Freon R134A Balance Air	
500ppm Freon R134A Balance Air	
1000ppm Freon R134A Balance Air	
Helium (He)	
100% Helium	
Heptane (C₇H₁₆)	
0.2% Heptane Balance Air	Pressure Restricted**
0.45% Heptane Balance Air	Pressure Restricted**
0.55% Heptane Balance Air	Pressure Restricted**
Hexane (C₆H₁₄)	
1200ppm Hexane Balance Air	Pressure Restricted**
0.5% Hexane Balance Air	Pressure Restricted**
Hydrogen (H₂)	
100ppm Hydrogen Balance Air	
100ppm Hydrogen Balance Nitrogen	
200ppm Hydrogen Balance Air	
0.1% Hydrogen Balance Air	
0.2% Hydrogen Balance Air	
0.4% Hydrogen Balance Air	
1.0% Hydrogen Balance Air	
1.6% Hydrogen Balance Air	
2.0% Hydrogen Balance Air (50% LEL)	
99.999% Hydrogen	
Hydrogen Chloride (HCl)	
10ppm Hydrogen Chloride Balance Nitrogen	34/58/110 Litre cylinders only Stainless Steel Regulator must be used
20ppm Hydrogen Chloride Balance Nitrogen	
25ppm Hydrogen Chloride Balance Nitrogen	
Hydrogen Cyanide (HCN)	
10ppm Hydrogen Cyanide Balance Nitrogen	34/58/110 Litre cylinders only Stainless Steel Regulator must be used
25ppm Hydrogen Cyanide Balance Nitrogen	
Hydrogen Sulphide (H₂S)	
10ppm Hydrogen Sulphide Balance Air	Only available in 12/34/58 Litre cylinders
20ppm Hydrogen Sulphide Balance Air	Only available in 12/34/58 Litre cylinders
25ppm Hydrogen Sulphide Balance Air	Only available in 12/34/58 Litre cylinders
25ppm Hydrogen Sulphide Balance Nitrogen	

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CONCENTRATION/GAS MIXTURE	PLEASE NOTE:
40ppm Hydrogen Sulphide Balance Nitrogen	
50ppm Hydrogen Sulphide Balance Air	Only available in 12/34/58 Litre cylinders
50ppm Hydrogen Sulphide Balance Nitrogen	
100ppm Hydrogen Sulphide Balance Nitrogen	
500ppm Hydrogen Sulphide Balance Nitrogen	
1000ppm Hydrogen Sulphide Balance Nitrogen	
1.0% Hydrogen Sulphide Balance Nitrogen	
Isobutylene (C₄H₈) (ISOB)	
10ppm Isobutylene Balance Air	
100ppm Isobutylene Balance Air	
Methane (CH₄)	
50ppm Methane Balance Air	
100ppm Methane Balance Air	
0.2% Methane Balance Air	
0.44% Methane Balance Air	
0.6% Methane Balance Air	
0.88% Methane Balance Air	
1.0% Methane Balance Air (20% LEL)	
1.25% Methane Balance Air (25% LEL)	
1.5% Methane Balance Air (30% LEL)	
1.8% Methane Balance Air	
2.0% Methane Balance Air (40% LEL)	
2.2% Methane Balance Air	
2.5% Methane Balance Air (50% LEL)	
50.0% Methane Balance Nitrogen	
60.0% Methane Balance Carbon Dioxide	
99.999% Methane	
Nitric Oxide (NO)	
10ppm Nitric Oxide Balance Nitrogen	34/58/110 Litre cylinders only Stainless Steel Regulator must be used
25ppm Nitric Oxide Balance Nitrogen	
50ppm Nitric Oxide Balance Nitrogen	
100ppm Nitric Oxide Balance Nitrogen	
200ppm Nitric Oxide Balance Nitrogen	
300ppm Nitric Oxide Balance Nitrogen	
500ppm Nitric Oxide Balance Nitrogen	
1000ppm Nitric Oxide Balance Nitrogen	
Nitrogen (N₂)	
99.999% Nitrogen (Grade 5.0)	
Nitrogen Dioxide (NO₂)	
5ppm Nitrogen Dioxide Balance Air	34/58/110 Litre cylinders only Stainless Steel Regulator must be used
10ppm Nitrogen Dioxide Balance Air	
20ppm Nitrogen Dioxide Balance Air	
25ppm Nitrogen Dioxide Balance Air	
100ppm Nitrogen Dioxide Balance Air	
Nitrous Oxide (N₂O)	
10ppm Nitrous Oxide Balance Nitrogen	

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25ppm Nitrous Oxide Balance Nitrogen	
1.0% Nitrous Oxide Balance Nitrogen	
Oxygen (O₂)	
0.4% Oxygen Balance Nitrogen	
1.0% Oxygen Balance Nitrogen	
4.0% Oxygen Balance Nitrogen	
5.0% Oxygen Balance Nitrogen	
8.0% Oxygen Balance Nitrogen	
10.0% Oxygen Balance Nitrogen	
15.0% Oxygen Balance Nitrogen	
20.9% Oxygen Balance Nitrogen	
21.0% Oxygen Balance Nitrogen	
23.0% Oxygen Balance Nitrogen	34/110 Litre cylinders only
25.0% Oxygen Balance Nitrogen	34/110 Litre cylinders only
100% Oxygen	34/110 Litre cylinders only
Pentane (C₅H₁₂)	
0.42% Pentane Balance Air	Pressure Restricted**
0.7% Pentane Balance Air (50% LEL)	Pressure Restricted**
Phosphine (PH₃)	
0.5ppm Phosphine Balance Nitrogen	34/58/110 Litre cylinders only Stainless Steel Regulator must be used
5ppm Phosphine Balance Nitrogen	
10ppm Phosphine Balance Nitrogen	
25ppm Phosphine Balance Nitrogen	
Propane (C₃H₈)	
50ppm Propane Balance Air	
100ppm Propane Balance Air	
1000ppm Propane Balance Air	
0.34% Propane Balance Air	
0.5% Propane Balance Air	
0.68% Propane Balance Air	
0.7% Propane Balance Air	
0.85% Propane Balance Air	
1.0% Propane Balance Air	
1.1% Propane Balance Air (50% LEL)	
8.0% Propane Balance Nitrogen	Pressure Restricted**
50.0% Propane Balance Nitrogen	Pressure Restricted**
100% Propane	Pressure Restricted**
Propylene (C₃H₆)	
1.0% Propylene Balance Air	
Silane (SiH₄)	
5ppm Silane Balance Nitrogen	34/58/110 Litre cylinders only Stainless Steel Regulator must be used
10ppm Silane Balance Nitrogen	
15ppm Silane Balance Nitrogen	
Sulphur Dioxide (SO₂)	
5ppm Sulphur Dioxide Balance Nitrogen	
10ppm Sulphur Dioxide Balance Nitrogen	

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15ppm Sulphur Dioxide Balance Nitrogen	
25ppm Sulphur Dioxide Balance Nitrogen	
70ppm Sulphur Dioxide Balance Nitrogen	
100ppm Sulphur Dioxide Balance Nitrogen	
200ppm Sulphur Dioxide Balance Nitrogen	
500ppm Sulphur Dioxide Balance Nitrogen	
1000ppm Sulphur Dioxide Balance Nitrogen	
Sulphur Hexafluoride (SF6)	
Please contact Euro-Gas for availability	
Toluene (C₇H₈)	
200ppm Toluene Balance Air	Pressure Restricted**
Vinyl Chloride (VCL)	
10ppm Vinyl Chloride Balance Nitrogen	34/58/110 Litre cylinders only Stainless Steel Regulator must be used
MULTI-MIXTURES	
TWO GAS MULTIMIX	
8% Butane 13.8% Carbon Dioxide Balance Nitrogen	
1.5% Methane 15% Oxygen Balance Nitrogen	
0.7% Pentane 15% Oxygen Balance Nitrogen	
THREE GAS MULTIMIX	
100ppm Carbon Monoxide 2.2% Methane 15.0% Oxygen / N ₂	
100ppm Carbon Monoxide 2.5% Methane 19.0% Oxygen / N ₂	
25ppm Hydrogen Sulphide 2.5% Methane 18.5% Oxygen Balance Nitrogen – 20/34/58 LITRE ONLY	
50ppm Hydrogen Sulphide 0.75% Iso-Butane 12.0% Oxygen Balance Nitrogen– 20/34/58 LITRE ONLY	
2.0% Carbon Dioxide 2.5% Methane 15.0% Oxygen Balance Nitrogen	
5.0% Carbon Dioxide 5.0% Methane 6.0% Oxygen Balance Nitrogen	
FOUR GAS MULTIMIX – PLEASE NOTE ONLY AVAILABLE IN 20/34/58 LITRE CYLINDERS	
10ppm Hydrogen Sulphide 50ppm Carbon Monoxide 2.5% Methane 20.9% Oxygen Balance Nitrogen	
10ppm Hydrogen Sulphide 300ppm Carbon Monoxide 1.45% Methane 15.0% Oxygen Balance Nitrogen	
25ppm Hydrogen Sulphide 50ppm Carbon Monoxide 2.5% Methane 12.0% Oxygen Balance Nitrogen	
25ppm Hydrogen Sulphide 50ppm Carbon Monoxide 0.75% Iso-Butane 12.0% Oxygen Balance Nitrogen	
25ppm Hydrogen Sulphide 50ppm Carbon Monoxide 0.9% Iso-Butane 12.0% Oxygen Balance Nitrogen	
25ppm Hydrogen Sulphide 100ppm Carbon Monoxide 2.2% Methane 18.0% Oxygen Balance Nitrogen	
25ppm Hydrogen Sulphide 100ppm Carbon Monoxide 2.2% Methane 20.9% Oxygen Balance Nitrogen	
25ppm Hydrogen Sulphide 100ppm Carbon Monoxide 2.5% Methane 18% Oxygen Balance Nitrogen	
25ppm Hydrogen Sulphide 100ppm Carbon Monoxide 2.5% Methane 18.5% Oxygen Balance Nitrogen	
25ppm Hydrogen Sulphide 100ppm Carbon Monoxide 2.5% Methane 20.8% Oxygen Balance Nitrogen	
25ppm Hydrogen Sulphide 100ppm Carbon Monoxide 1.1% Propane 19.0% Oxygen Balance Nitrogen	
25ppm Hydrogen Sulphide 200ppm Carbon Monoxide 0.7% Pentane 18.0% Oxygen Balance Nitrogen	
30ppm Hydrogen Sulphide 100ppm Carbon Monoxide 2.5% Methane 17.0% Oxygen Balance Nitrogen	
40ppm Hydrogen Sulphide 2.0% Carbon Dioxide 2.5% Methane 15.0% Oxygen Balance Nitrogen	
40ppm Hydrogen Sulphide 100ppm Carbon Monoxide 2.5% Methane 15.0% Oxygen Balance Nitrogen	
50ppm Hydrogen Sulphide 200ppm Carbon Monoxide 2.5% Methane 17.0% Oxygen Balance Nitrogen	
COMPLEX MULTIMIXES	
500ppm C ₂ H ₆ /500ppm CH ₄ /500ppm C ₂ H ₄ /500ppm C ₂ H ₂ /500ppm CO/500ppm CO ₂ /100ppm H ₂ // Air	

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