



Mini Cal Kits™

DCG has available Miniature Calibration Standards for the following Natural Gas and Refinery Gas Standards.

Natural Gas Standards			
Concentration: Mole Percent			
	NG # 1	NG # 2	NG # 3
Nitrogen	1.000%	2.500%	5.000%
Carbon Dioxide	0.500%	1.000%	1.500%
Methane	94.750%	85.250%	70.000%
Ethane	2.000%	5.000%	9.000%
Propane	0.750%	3.000%	6.000%
Isobutane	0.300%	1.000%	3.000%
N-Butane	0.300%	1.000%	3.000%
Isopentane	0.150%	0.500%	1.000%
N-Pentane	0.150%	0.500%	1.000%
Hexanes Plus EX	0.100%	0.250%	0.500%



Refinery Gas Standards					
Concentration: Mole Percent					
	RG # 1	RG # 2	RG # 3	RG # 5	RG # 7
Hydrogen	40.750%	12.500%		12.500%	12.570%
Argon	0.500%	1.000%		1.000%	0.300%
Nitrogen	4.000%	37.200%		37.200%	1.000%
Carbon Monoxide	1.000%	1.000%		1.000%	1.000%
Carbon Dioxide	3.000%	3.000%		3.000%	25.400%
Methane	8.500%	5.000%	0.200%	5.000%	26.700%
Helium			90.000%		0.600%
Ethane	6.000%	4.000%	0.200%	4.000%	9.410%
Ethylene	2.000%	2.000%	0.200%	2.000%	0.500%
Acetylene		1.000%		1.000%	1.000%
Propane	7.000%	6.000%	0.300%	6.000%	6.000%
Propylene	3.000%	3.000%	0.800%	3.000%	1.000%
Propadiene	0.850%	1.000%		1.000%	0.740%
Cyclopropane		0.040%			
Isobutane	6.000%	5.000%	0.800%	5.000%	3.000%
N-Butane	4.000%	4.000%	0.500%	4.000%	2.000%
Isobutylene	2.000%	1.000%	0.800%	1.000%	0.500%
1,3-Butadiene	3.000%	3.000%	0.200%	3.000%	1.480%
Cis-2-Butene	2.000%	2.000%	0.500%	2.000%	1.000%
Trans-2-Butene	2.000%	3.000%	0.700%	3.000%	1.500%
Butene-1	2.000%	2.000%	0.500%	2.000%	1.000%
2-Methyl-1-Butene			0.500%		
2-Methyl-2-Butene		0.200%	1.000%	0.200%	0.200%
Isopentane	1.000%	1.000%	1.200%	1.000%	1.000%
N-Pentane	1.000%	1.000%	0.300%	1.000%	1.000%
Cis-2-Pentene		0.400%	0.300%	0.400%	0.170%
Trans-2-Pentene		0.160%	0.700%	0.200%	0.430%
Pentene-1		0.400%	0.300%	0.400%	0.400%
N-Hexane	0.500%	0.100%			
Hexanes Plus EX				0.100%	0.100%

The Natural Gas Standards are available in one-liter low-pressure cylinders with a brass CGA 170 valve. DCG's Mini Regulator is recommended for this cylinder and standard. The Refinery Gas Standards are available in three cylinders sizes; one liter low pressure cylinder with a brass CGA 170 valve, 9.5 liter LP 2.5 size cylinder with a brass CGA 510 valve and a 19 liter LP 5 size cylinder with a brass CGA 510 valve. The Mini Regulator is recommended for the one-liter cylinder while the 1000 Series Regulator is recommended for the 9.5 and 19-liter cylinders. The standards are transfilled from Mother Calibration Standards that are gravimetrically prepared and NIST Traceable by weight. The gravimetric values of the Mother Calibration Standards are verified by one or more analytical techniques. For more information regarding these products please contact a DCG Technical Specialist.

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Chromatographic Reference Materials