

## Mini Cal™ Refinery Gas Standards

DCG's Refinery Gas Standards are available in three cylinder sizes; 1 liter low pressure cylinder with a brass CGA 170 Diaphragm valve, 9.5 liter LP 2.5 size cylinder with a brass CGA 510 Diaphragm valve and a 19-liter LP 5 size cylinder with a brass CGA 510 Diaphragm valve



The Mini Regulator is recommended for the 1-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.



DCG has determined that many laboratories now have size restrictions on cylinders to be used for calibration. Many clients have turned to DCG Mini Cal Cylinders as the answer to the safety limitations.

Currently DCG maintains a variety of Natural Gas and Refinery Gas Standards in Mini Cal™ Cylinders for immediate shipment. A large number of our clients are presently ordering custom DCG Premier Calibration Standard in the traditional cylinders stored at DCG and sending in their empty Mini Cal™ Cylinders for refill. The turn-around time for this service is approximately two business days.

DCG encourages clients to return their empty cylinders for refill to minimize hazardous material disposal costs. The cylinder upon arrival is examined in accordance to DOT Regulations, refilled and sent back to you and ready for your next calibration.



**DCG Partnership 1, Ltd.**

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**281-648-1894, Option 1**

[www.dcgpartnership.com](http://www.dcgpartnership.com)

*DCG Spec-Brief™*  
 Consult the following  
 Spec's for related  
 Applications:

*SB-116 Brass Mini-Regulator*  
*SB-132 CGA Fittings*



Contact a DCG Technical  
 Specialist for more information regarding this  
 product.

**Call Today!**

**281-648-1894, Option 1**

	RG #1	RG #2	RG #3	RG #5	RG #7
Hydrogen	40.75%	12.50%		12.50%	12.57%
Argon	0.50%	1.00%		1.00%	0.30%
Nitrogen	4.00%	37.20%		37.20%	1.00%
Carbon Monoxide	1.00%	1.00%		1.00%	1.00%
Carbon Dioxide	3.00%	3.00%		3.00%	25.40%
Methane	8.50%	5.00%	0.20%	5.00%	26.70%
Helium			90.00%		0.60%
Ethane	6.00%	4.00%	0.20%	4.00%	9.41%
Ethylene	2.00%	2.00%	0.20%	2.00%	0.50%
Acetylene		1.00%		1.00%	1.00%
Propane	7.00%	6.00%	0.30%	6.00%	6.00%
Propylene	3.00%	3.00%	0.80%	3.00%	1.00%
Propadiene	0.85%	1.00%		1.00%	0.74%
Cyclopropane		0.04%			
Isobutane	6.00%	5.00%	0.80%	5.00%	3.00%
n-Butane	4.00%	4.00%	0.50%	4.00%	2.00%
Isobutylene	2.00%	1.00%	0.80%	1.00%	0.50%
1,3-Butadiene	3.00%	3.00%	0.20%	3.00%	1.48%
cis-2-Butene	2.00%	2.00%	0.50%	2.00%	1.00%
trans-2-Butene	2.00%	3.00%	0.70%	3.00%	1.50%
Butene-1	2.00%	2.00%	0.50%	2.00%	1.00%
2-Methyl-1-Butene			0.50%		
2-Methyl-2-Butene		0.20%	1.00%	0.20%	0.20%
Isopentane	1.00%	1.00%	1.20%	1.00%	1.00%
n-Pentane	1.00%	1.00%	0.30%	1.00%	1.00%
cis-2-Pentene		0.40%	0.30%	0.40%	0.17%
trans-2-Pentene		0.16%	0.70%	0.20%	0.43%
Pentene-1		0.40%	0.30%	0.40%	0.40%
n-Hexane	0.50%	0.10%			
Hexanes Plus EX				0.10%	0.10%