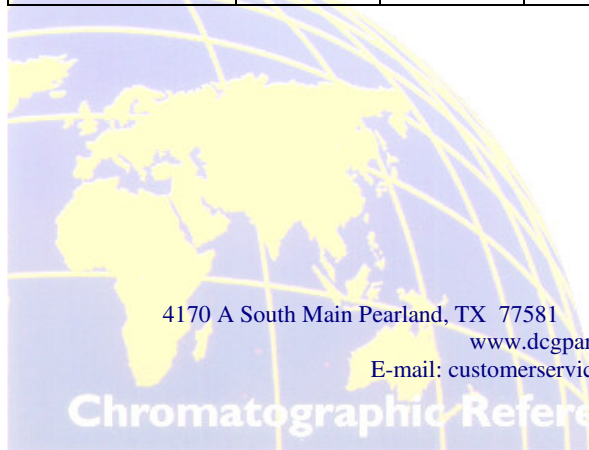




Refinery Gas Standards

DCG prepares a wide variety for Refinery Gas Standards. These standards are gravimetrically prepared and N.I.S.T. Traceable by weight with the gravimetric values verified by one or more analytical methods. The following standards are examples of what DCG prepares. Please call your DCG Technical Specialist for assistance in determining the composition of a standard that meets your needs.

REFINERY GAS STANDARDS						
	RG # 1	RG #2	RG #3	RG #5	RG #7	RG W/H ₂ S
Hydrogen	40.650%	12.500%		12.500%	12.570%	26.000%
Argon	0.500%	1.000%		1.000%	0.300%	1.000%
Hydrogen Sulfide						1.000%
Nitrogen	4.000%	37.200%		37.200%	1.000%	1.500%
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%	20.250%
Helium			90.000%		0.600%	
Ethane	6.000%	4.000%	0.200%	4.000%	9.410%	14.000%
Ethylene	2.000%	2.000%	0.200%	2.000%	0.500%	12.000%
Acetylene		1.000%		1.000%	1.000%	0.500%
Propane	7.000%	6.000%	0.300%	6.000%	6.000%	10.000%
Propylene	3.000%	3.000%	0.800%	3.000%	1.000%	8.000%
Propadiene	0.850%	1.000%		1.000%	0.740%	
Cyclopropane		0.040%				
Isobutane	6.000%	5.000%	0.800%	5.000%	3.000%	2.000%
N-Butane	4.000%	4.000%	0.500%	4.000%	2.000%	1.000%
Isobutylene	2.000%	1.000%	0.800%	1.000%	0.500%	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%	0.500%
trans-2-Butene	2.000%	3.000%	0.700%	3.000%	1.500%	0.500%
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%	0.500%
N-Pentane	1.000%	1.000%	0.300%	1.000%	1.000%	0.500%
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%				0.250%
Hexanes Plus EX				0.100%	0.100%	



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Chromatographic Reference Materials