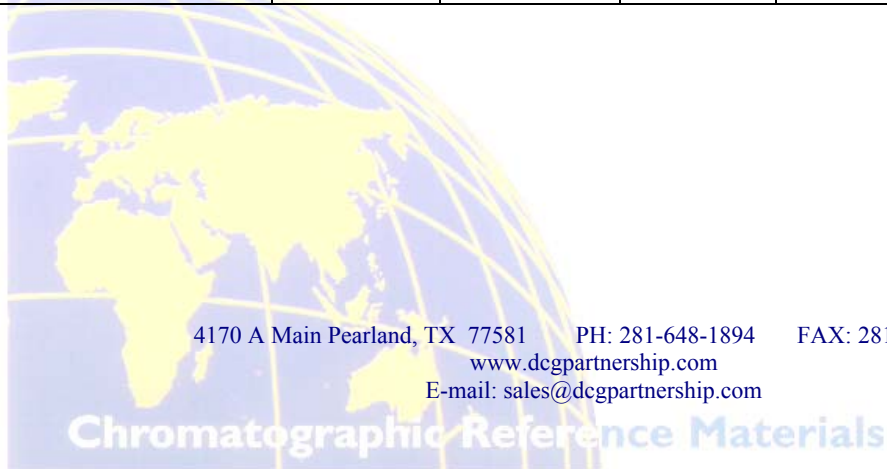


## Butane Standards

DCG prepares a wide variety of Butane Calibration 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.

	NC <sub>4</sub> w/Olefins	NC <sub>4</sub> Product Std.	Hi Olefin C <sub>4</sub> Std.	Mixed C <sub>4</sub> 's W/ Olefins	C <sub>4</sub> /C <sub>5</sub> Std.
Methane					0.300%
Ethane				0.100%	0.500%
Ethylene					0.300%
Propane	1.500%	0.250%	0.250%	1.500%	0.500%
Propylene			0.100%	200 ppm	0.300%
Isobutane	1.960%	0.275%	57.300%		21.100%
N-Butane	94.000%	98.845%	25.000%	Balance	10.000%
Butene-1	0.245%		5.000%	0.250%	11.000%
Cis-2-Butene	0.245%		5.000%	0.500%	12.000%
Trans-2-Butene	0.245%		5.000%	0.500%	14.000%
Isobutylene	0.245%		1.000%	0.750%	18.000%
1,3 Butadiene	0.010%		1.000%	200 ppm	1.000%
Isopentane	0.750%	0.375%	0.100%	1.000%	2.000%
N-Pentane	0.750%	0.120%	0.100%	1.500%	1.000%
2,2 Dimethylpropane				0.250%	
Pentene-1					2.000%
2-Methyl-1-Butene					0.750%
2-Methyl-2-Butene					1.250%
3-Methyl-1-Butene					1.000%
Cis-2-Pentene					1.000%
Trans-2-Pentene					1.000%
N-Hexane		0.135%			1.000%
Hexanes Plus	0.050%			0.100%	



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Chromatographic Reference Materials



## Butane Standards (continued)

	DeC <sub>4</sub> Overhead	IC <sub>4</sub> /IC <sub>4</sub> = W/ Olefins	IC <sub>4</sub> w/ Olefins
Methane		0.100%	
Ethane		0.200%	0.020%
Ethylene		0.050%	1.300%
Propane	0.500%	0.200%	0.020%
Propylene		0.050%	
Isobutane	56.000%	Balance	Balance
N-Butane	43.000%	1.000%	1.500%
Butene-1		0.500%	0.100%
Cis-2-Butene		0.500%	0.020%
Trans-2-Butene		0.500%	0.020%
Isobutylene		45.000%	0.100%
1,3 Butadiene		0.100%	0.020%
Isopentane	0.200%	0.050%	0.040%
N-Pentane		0.050%	0.020%
2,2 Dimethylpropane	0.300%	0.050%	



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