



n-Butane

Description

Synonym: Butane, Normal Butane
Formula: C₄H₁₀

Gas Data

Molecular Weight: 58.12
Density: 2.489 kg/m³ @ 21.1°C, 101.325 kPa
0.1554 lb/ft³ @ 70°F, 14.696 psia
Specific Volume: 0.4018 m³/kg @ 21.1°C, 101.325 kPa
6.435 ft³/lb @ 70°F, 14.696 psia

Safety Information

LFL in Air: 1.8%
UFL in Air: 8.4%
Permissible Exposure Limit (TLV): 800 ppm

Shipping Information

CAS Number: 106-97-8
UN Number: UN 1011
ECCN Number: 1C982
DOT Proper Shipping Name: Butane
DOT Classification: 2.1 (Flammable Gas)
DOT Label: FLAMMABLE GAS
TC Shipping Name: Butane
TC Classification: 2.1
TC Label: FLAMMABLE GAS

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1F	510	16	110	202	92
1A	510	16	110	172	78
2	510	16	110	90	40
3	510	16	110	45	21
4	510	16	110	24	11
6	510	16	110	20	9
7	510	16	110	6	3
LB	170	16	110	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Content Metric	Equipment Recommendations	Model No.	
n-Butane, Research Purity 99.99%	G2208106	1F	120 lb	54.43 kg	Single Stage Reg. Tee Purge LB Regulator Detector Tube Outlet Plug Wrench Flash Arrestor	Series 3530-510 4753-510 Series 3550-180 8014-221SA TW-4 6103A-F	
<i>Guaranteed Specifications</i>	G2208101	1A	40 lb	18.14 kg			
<i>Liquid Phase Analysis</i>	G2208140	2	16 lb	7.26 kg			
Other Hydrocarbons <	90 ppm	G2208150	3	6 lb			2.72 kg
Nitrogen <	20 ppm	G2208165	4	2 lb			0.91 kg
Oxygen <	5 ppm	G2208181	7	0.44 lb			200 gm
Water <	3 ppm						
<i>A Certificate of Analysis is available on request at a nominal charge.</i>							
n-Butane, Matheson Purity 99.95%	G1813006	1F	120 lb	54.43 kg	Single Stage Reg. Tee Purge LB Regulator Detector Tube Outlet Plug Wrench Flash Arrestor	Series 3530-510 4753-510 Series 3550-180 8014-221SA TW-4 6103A-F	
<i>Guaranteed Specifications</i>	G1813001	1A	40 lb	18.14 kg			
<i>Liquid Phase Analysis</i>	G1813040	2	16 lb	7.26 kg			
Other Hydrocarbons <	500 ppm	G1813050	3	6 lb			2.72 kg
Nitrogen <	40 ppm	G1813065	4	2 lb			0.91 kg
Oxygen <	10 ppm	G1905081	7	0.44 lb			200 gm
Water <	3 ppm						
<i>A Certificate of Analysis is available on request at a nominal charge.</i>							
n-Butane, Ultra High Purity 99.9%	G1905006	1F	120 lb	54.43 kg	Single Stage Reg. Tee Purge LB Regulator Detector Tube Outlet Plug Wrench Flash Arrestor	Series 3530-510 4753-510 Series 3550-180 8014-221SA TW-4* 6103A	
<i>Guaranteed Specifications</i>	G1905001	1A	40 lb	18.14 kg			
<i>Liquid Phase Analysis</i>	G1905040	2	16 lb	7.26 kg			
Other Hydrocarbons <	900 ppm	G1905050	3	6 lb			2.72 kg
Nitrogen <	100 ppm	G1905065	4	2 lb			0.91 kg
Oxygen <	20 ppm	G1905075	LB	0.375 lb			170 gm
Water <	4 ppm						
<i>A Certificate of Analysis is available on request at a nominal charge.</i>							