



# Neon

### Description

Formula: Ne

### Gas Data

Molecular Weight: 20.18  
 Density: 0.8254 kg/m<sup>3</sup> @ 21.1°C, 101.325 kPa  
 0.05153 lb/ft<sup>3</sup> @ 70°F, 14.696 psia  
 Specific Volume: 1.212 m<sup>3</sup>/kg @ 21.1°C, 101.325 kPa  
 19.41 ft<sup>3</sup>/lb @ 70°F, 14.696 psia

### Shipping Information

CAS Registry Number: 7440-01-9  
 UN Number: UN 1065  
 DOT Proper Shipping Name: Neon, Compressed  
 DOT Classification: 2.2 (Nonflammable Gas)  
 DOT Label: NON-FLAMMABLE GAS  
 TC Shipping Name: Neon, Compressed  
 TC Classification: 2.2  
 TC Label: NON-FLAMMABLE GAS,  
 NON-POISONOUS GAS

### Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1A	580	1,900	13,100	141	64
2	580	850	5,860	76	35
3	580	530	3,654	40	19
4	580	530	3,654	23	11
6	580	1,585	10,928	20	9
7A	580	825	5,688	6	3
7B	580	1,650	11,376	6	3
7	580	225	1,551	6	3
LB	170	825	5,688	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Content Metric	Equipment Recommendations	Model No.	Page No.
<b>Neon, Research Purity 99.9995%</b>	G2164101	1A	177 ft <sup>3</sup>	5000 L	Dual Stage Reg. Single Stage Reg. Low Dead Volume Reg. Leak Detector Outlet Plug Wrench	Series 3810-580 Series 3510-580 3590A-580 8066 TW-4	318 312 315 406 430
<i>Typical Analysis</i>	G2164140	2	35 ft <sup>3</sup>	1000 L			
Argon < 1 ppm	G2164150	3	9 ft <sup>3</sup>	250 L			
Carbon Dioxide < 0.1 ppm	G2164165	4	2.93 ft <sup>3</sup>	83 L			
Carbon Monoxide < 0.1 ppm	G2164178	6	3.53 ft <sup>3</sup>	100 L			
Methane (THC) < 0.1 ppm	G2164183	7B	1.77 ft <sup>3</sup>	50 L			
Nitrogen < 1 ppm	G2164182	7A	0.88 ft <sup>3</sup>	25 L			
Oxygen < 0.5 ppm	G2164181	7	0.25 ft <sup>3</sup>	7 L			
Water < 1 ppm							
<i>A Certificate of Analysis will be provided with each cylinder at a nominal charge.</i>							
<b>Neon, Ultra High Purity 99.999%</b>	G1159201	1A	177 ft <sup>3</sup>	5000 L	Dual Stage Reg. Single Stage Reg. LB Regulator Low Dead Volume Reg. Leak Detector Outlet Plug Wrench	Series 3810-580 Series 3510-580 Series 3570-170 3590A-580 8066 TW-4*	318 312 314 315 406 430
<i>Typical Analysis</i>	G1159240	2	35 ft <sup>3</sup>	1000 L			
Argon < 1 ppm	G1159250	3	9 ft <sup>3</sup>	250 L			
Carbon Dioxide < 1 ppm	G1159265	4	2.93 ft <sup>3</sup>	83 L			
Carbon Monoxide < 1 ppm	G1159275	LB	0.88 ft <sup>3</sup>	25 L			
Nitrogen < 4 ppm							
Oxygen < 1 ppm							
THC < 1 ppm							
Water < 5 ppm							
<i>A lot analysis is available upon request. Please inquire for individual cylinder analysis.</i>							
<i>*Except LB</i>							