

Ethylene

Description Synonym: Ethene Formula: C_2H_4

Gas Data

Molecular Weight: 28.05

1.26 kg/m³ @ 0°C, 101.325 kPa 0.0787 lb/ft³ @ 32°F, 14.696 psia 0.793 m³/kg @ 0°C, 101.325 kPa 12.7 ft³/lb @ 32°F, 14.696 psia Density: Specific Volume:

Safety Information LFL in Air: 2.7% 36% UFL in Air:

Shipping Information CAS Registry Number: 74-85-1 UN Number: UN 1962 1C982 ECCN Number:

Ethylene, Compressed 2.1 (Flammable Gas) FLAMMABLE GAS DOT Proper Shipping Name: DOT Classification: DOT Label: TC Shipping Name: TC Classification: Ethylene, Compressed

TC Label: FLAMMABLE GAS

Cylinder Specifications ————————————————————————————————————									
Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight Ib kg					
1A	350	1,200	8,274	152	69				
1R	350	1,200	8,274	67	30				
2	350	1,200	8,274	75	34				
3	350	1,200	8,274	34	16				
6	350	1,200	8,274	5	2				
7	350	1,200	8,274	6	3				
LB	170	1,200	8,274	6	3				

Gas Grade Purity			Product	Cylinder	Со	ntent	Equipment	Model
Specifications			Code	Size	US	Metric	Recommendations	No.
Ethylene, Research Purity 99.999% Guaranteed Specifications			G2250101 G2250118	1A 1R	30 lb 18 lb	13.61 kg 8.16 kg	Dual Stage Reg. Single Stage Reg.	Series 3120-350 Series 3530-350
Other Hydrocarbons	<	8 ppm	G2250140	2	11 lb	4.99 kg	LB Regulator	Series 3550-170
Nitrogen	<	2 ppm	G2250150	3	4.5 lb	2.04 kg	Tee Purge	4753-350
Oxygen	<		G2250181	7	0.31 lb	140 gm	Leak Detector	8057
Carbon Dioxide	<	2 ppm					Detector Tube	8014-108B
Carbon Monoxide	<	2 ppm						
Acetylene	<	2 ppm						
Water	<	3 ppm						
A Certificate of Analysis is at			t a nominal cha	rge.				
Not for use as a plant growth	regu	lator.						
Ethylene, Matheson Pur	ity 9	99.995%	G1827901	1A	30 lb	13.61 kg	Dual Stage Reg.	Series 3120-350
Guaranteed Specifications	-		G1827918	1R	18 lb	8.16 kg	Single Stage Reg.	Series 3530-350
Other Hydrocarbons	<	40 ppm	G1827940	2	11 lb	4.99 kg	LB Regulator	Series 3550-170
Nitrogen	<	5 ppm	G1827950	3	4.5 lb	2.04 kg	Tee Purge	4753-350
Oxygen	<	2 ppm	G1827981	7	0.31 lb	140 gm	Leak Detector	8057
Carbon Dioxide	<	5 ppm					Detector Tube	8014-108B
Carbon Monoxide	<	2 ppm						
Acetylene	<	4 ppm						
Water	<	5 ppm						
A Certificate of Analysis is at		ole on request at	t a nominal cha	rge.				
Not for use as a plant growth	regu	lator.						
Ethylene, Ultra High Pui	rity 9	99.95%	G1920801	1A	30 lb	13.61 kg	Dual Stage Reg.	Series 3120-350
Guaranteed Specifications	-		G1920818	1R	18 lb	8.16 kg	Single Stage Reg.	Series 3530-350
Other Hydrocarbons	<	400 ppm	G1920840	2	11 lb	4.99 kg	LB Regulator	Series 3550-170
Nitrogen	<	50 ppm	G1920850	3	4.5 lb	2.04 kg	Tee Purge	4753-350
Oxygen	<	10 ppm	G1920875	LB	0.25 lb	113 gm	Leak Detector	8057
Carbon Dioxide	<	10 ppm					Detector Tube	8014-108B
Carbon Monoxide	<	3 ppm						
Acetylene	<	6 ppm						
Water	<	5 ppm						
A Certificate of Analysis is at		ole on request at	t a nominal cha	rge.				
Not for use as a plant growth	regu	lator.						



Ethylene (continued)

Gas Grade Purity	Product	Cylinder	inder Content		Equipment	Model
Specifications	Code	Size	US	Metric	Recommendations	No.
Ethylene, Polymer Purity 99.9% Guaranteed Specifications Other Hydrocarbons < 800 ppr Nitrogen < 100 ppr Oxygen < 20 ppr Carbon Dioxide < 10 ppr Carbon Monoxide < 3 ppr Acetylene < 8 ppr Water < 5 ppr A Certificate of Conformance will be provided A lot analysis is available at a nominal charge Not for use as a plant growth regulator.	n G1358475 n n n n n n n upon request.	1A 2 3 LB	30 lb 11 lb 4.5 lb 0.25 lb	13.61 kg 4.99 kg 2.04 kg 113 gm	Dual Stage Reg. Single Stage Reg. LB Regulator Tee Purge Leak Detector Detector Tube	Series 3120-350 Series 3530-350 Series 3550-170 4753-350 8057 8014-108B
Ethylene, CP Grade 99.5% A Certificate of Conformance will be provided Not for use as a plant growth regulator.	G1358201 G1358240 G1358250 G1358275 on request.	1A 2 3 LB	30 lb 11 lb 4.5 lb 0.25 lb	13.61 kg 4.99 kg 2.04 kg 113 gm	Dual Stage Reg. Single Stage Reg. LB Regulator Tee Purge Leak Detector Detector Tube	Series 1250-350 Series 3530-350 Series 3550-170 4753-350 8057 8014-108B