

## **Ethylene**

Description Ethene Synonym: 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** 

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

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

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

TC Label: FLAMMABLE GAS

Cylinder Specifications —									
Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	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	Co	ontent	Equipment	Model
Specifications			Code	Size	US	Metric	Recommendations	No.
Ethylene, Research Purity 99.999%			G2250101	1A	30 lb	13.61 kg	Dual Stage Reg.	Series 3120-350
Typical Analysis (mol/mol units)			G2250118	1R	18 lb	8.16 kg	Single Stage Reg.	Series 3530-350
Acetylene	<			2	11 lb	4.99 kg	LB Regulator	Series 3550-170
Carbon Dioxide	<	2 ppm	G2250150	3	4.5 lb	2.04 kg	Tee Purge	4753-350
Carbon Monoxide	<	2 ppm	G2250178	6	0.62 lb	280 gm	Leak Detector	8057
Nitrogen	<	2 ppm	G2250181	7	0.31 lb	140 gm	Detector Tube	8014-108B
Oxygen	<	2 ppm						
Other Hydrocarbons	<	8 ppm						
Water	<	3 ppm						
Not for use as a plant growth  Ethylene, Matheson Pu	0		G1827901	1A	30 lb	13.61 kg	Dual Stage Reg.	Series 3120-350
Typical Analysis (mol/mol	units)		G1827918	1R	18 lb	8.16 kg	Single Stage Reg.	Series 3530-350
Acetylene	<	4 ppm	G1827940	2	11 lb	4.99 kg	LB Regulator	Series 3550-170
Carbon Dioxide	<	5 ppm	G1827950	3	4.5 lb	2.04 kg	Tee Purge	4753-350
Carbon Monoxide	<	2 ppm	G1827978	6	0.62 lb	280 gm	Leak Detector	8057
Nitrogen	<	5 ppm	G1827981	7	0.31 lb	140 gm	Detector Tube	8014-108B
Oxygen	<	2 ppm						
Other Hydrocarbons	<	80 ppm						
Water	<	3 ppm						
A Certificate of Analysis is a Analysis for sulfurs, alcohols Not for use as a plant growth	and hy	drides can be			e inquire for mo	ore information.		



## Ethylene (continued)

Gas Grade Purity		Product Cylinde		Content		Equipment	Model	
Specifications			Code	Size	US	Metric	Recommendations	No.
Ethylene, Ultra High Purity 99.95% Typical Analysis			G1920801 G1920818	1A 1R	30 lb 18 lb	13.61 kg 8.16 kg	Dual Stage Reg. Single Stage Reg.	Series 3120-350 Series 3530-350
Carbon Dioxide Ethane Oxygen Propane Propylene Water A lot analysis will be proc Analysis for sulfurs, alco	hols and	hydrides can b	G1920840 G1920850 G1920878 G1920881 G1920875 r. Please inquire	2 3 6 7 LB	11 lb 4.5 lb 0.62 lb 0.31 lb 0.25 lb	4.99 kg 2.04 kg 280 gm 140 gm 113 gm	LB Regulator Tee Purge Leak Detector Detector Tube	Series 3550-350 Series 3550-170 4753-350 8057 8014-108B
Ethylene, Polymer Polymer Polymer A Cartificate of Conforma A lot analysis is available Not for use as a plant gro	< <p>&lt; </p> ance will e at a non	10 ppm 5 ppm be provided up ninal charge.	G1358401 G1358440 G1358450 G1358475	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 S	99.5%		G1358201 G1358240 G1358250 G1358275	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
A Certificate of Conforma Not for use as a plant gro		,	request.					