



Ethylene (C₂H₄)

Specifications

	GRADE 3	GRADE 4	GRADE 4.5	GRADE 5	GRADE 5.5
Purity	99.9%	99.99%	99.995%	99.999%	99.9995%
Nitrogen	< 100 ppmv	< 5 ppmv	< 5 ppmv	< 2 ppmv	< 1 ppmv
Oxygen	< 20 ppmv	< 2 ppmv	< 2 ppmv	< 2 ppmv	< 1 ppmv
Carbon Dioxide	< 10 ppmv	< 5 ppmv	< 5 ppmv	< 2 ppmv	< 1 ppmv
Carbon Monoxide	< 3 ppmv	< 2 ppmv	< 2 ppmv	< 2 ppmv	< 1 ppmv
Other Hydrocarbons	< 800 ppmv	< 80 ppmv	< 40 ppmv	< 8 ppmv	< 4 ppmv
Acetylene	< 8 ppmv	< 4 ppmv	< 4 ppmv	< 2 ppmv	< 1 ppmv
Moisture	< 5 ppmv	< 5 ppmv	< 5 ppmv	< 3 ppmv	< 1 ppmv
Total Impurities	< 1,000 ppmv	< 100 ppmv	< 50 ppmv	< 10 ppmv	< 5 ppmv

Note: Moisture level guaranteed only when EFC Gases & Advanced Materials prepares the cylinders. All concentrations are on a mol/mol basis unless otherwise stated.

Cylinder Sizes

SIZE	FILL WEIGHT (LB)
49L/Size 300	37
44L/Size 200	30
16L/Size 80	11
7L/Size 35	4

Technical Data

Molecular Weight: 28.054 g/mol
Specific Volume: 13.8 cu.ft./lb
Flammability Limits: 2.7 - 36% in Air
Valve Outlet: CGA 350 LB CGA 170

Shipping Information

DOT Name: Ethylene, Compressed
Hazard Class: 2.1
DOT Number: UN 1962
DOT Label: Flammable Gas
CAS Number: 74-85-1