

# Ethylene $C_2H_4$

## $C_2H_4$ in Air CGA 590

Grade	Concentration	Cylinder Size	Contents cu. ft.	Pressure psig @ 70° F	Recommended Pressure Regulator Type	Series	Page
Primary	10 - 49 ppm	K	214	2000	Two-stage	Model 600	122
	50 ppm - 1.55%	K	214	2000	Single-stage	Model 600	121
Certified	100 - 999 ppb	KAL	144	2000	Two-stage Single-stage	Model 600	122
		GAL	29	2000			
	1 - 49 ppm	K	214	2000			
		Q	78	2000			
		G	33	2000			
	50 - 999 ppm	K	214	2000			
		Q	78	2000			
		G	33	2000			
	0.1 - 1.55%	K	214	2000			
		Q	78	2000			
G		33	2000				
Unanalyzed	50 - 999 ppm	K	214	2000	Two-stage Single-stage	Model 600	122
		Q	78	2000			
		G	33	2000			
	0.1 - 1.55%	K	214	2000			
		Q	78	2000			
		G	33	2000			

Ethylene in Air is available only to 1.55% concentration.

Mixtures of Ethylene in Air above 0.54% are produced at reduced pressures and volumes for safety considerations.

## $C_2H_4$ in Nitrogen CGA 350

Grade	Concentration	Cylinder Size	Contents cu. ft.	Pressure psig @ 70° F	Recommended Pressure Regulator Type	Series	Page
Primary	10 - 49 ppm	K	208	2000	Two-stage	Model 600	122
	50 ppm - 50%	K	208	2000	Single-stage	Model 600	121
Certified	100 - 999 ppb	KAL	140	2000	Two-stage Single-stage	Model 600	122
		GAL	28	2000			
	1 - 49 ppm	K	208	2000			
		Q	76	2000			
		G	32	2000			
	50 - 999 ppm	K	208	2000			
		Q	76	2000			
		G	32	2000			
	0.1 - 50%	K	208	2000			
		Q	76	2000			
G		32	2000				
Unanalyzed	50 - 999 ppm	K	208	2000	Two-stage Single-stage	Model 600	122
		Q	76	2000			
		G	32	2000			
	0.1 - 50%	K	208	2000			
		Q	76	2000			
		G	32	2000			

Concentrations above 45% are available at reduced pressures and volumes to minimize the potential of ethylene condensation.

## Shipping Data *(Must list two components in parentheses in association with the DOT name.)*

Percent of Ethylene	≤ 6.0%	> 6.0%
DOT Name	Compressed Gas, N.O.S.	Compressed Gas, Flammable, N.O.S.
Hazard Class	2.2	2.1
I.D. No.	UN 1956	UN 1954
DOT Label	Nonflammable Gas	Flammable Gas

Ethylene mixtures in Argon or Hydrogen are available upon request.