

# Pure Gases

## Ethyl Chloride (C<sub>2</sub>H<sub>5</sub>Cl) A colorless, flammable, liquefied gas with a pungent, ethereal odor.

Purity Specifications	Minimum Purity
Chemically Pure (CP)	99.9%

PRODUCT	Ordering Information					Equipment Recommendations		
	Cylinder Size	Contents lbs	Standard Valve Outlet (CGA)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number
<b>Chemically Pure (CP)</b>	TON	1300	300	EC CPTON	5.6	<b>Manual Control Valve</b> Y30-111300	<b>N/A</b>	<b>E101</b>
	1/2 TON	800	300	EC CPHTN	5.6			
	1/4 TON	400	300	EC CP400	5.6			
	350	195	300	EC CP350	5.6			
Certificate of Conformance provided upon request.								

Technical Data & Shipping Information	
Molecular Weight	64.51
Specific Volume	6.0 cf/lb @70° F
Flammability Limits in Air	3.8 - 15.4% in Air
U.S. DOT Name	Ethyl Chloride
ID Number	UN 1037
U.S. DOT Hazard Class	2.1
U.S. DOT Label	Flammable Gas
CAS Registry	75-00-3

## Ethylene (C<sub>2</sub>H<sub>4</sub>) A flammable, colorless gas with a slightly sweet odor.

Purity Specifications	Minimum Purity	O <sub>2</sub>	H <sub>2</sub> O	CH <sub>4</sub>	C <sub>2</sub> H <sub>2</sub>	C <sub>2</sub> H <sub>6</sub>	C <sub>3+</sub>	CO	CO <sub>2</sub>	N <sub>2</sub>
Research Plus	99.9995%	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Research	99.995%	< 2	< 5	< 10	< 5	< 4	< 10	< 2	< 5	< 5
Ultra High Purity (UHP)	99.9%	< 10	< 5	< 200	< 10	100	< 50	< 5	< 10	< 50
Chemically Pure (CP)	99.5%			< 500	< 100		< 100			
Plant Growth	98.5%			< 1000			< 500			

Concentrations given are ppm by volume unless otherwise specified.

PRODUCT	Ordering Information					Equipment Recommendations		
	Cylinder Size	Contents lbs	Standard Valve Outlet (CGA)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number
<b>Research Plus</b>	200	33	350	EY RP200	1200	<b>Two-Stage Regulator</b> Y12-215 * 350	<b>A = 0-25</b> <b>B = 0-50</b> <b>D = 0-100</b> <b>E = 0-150</b> <b>F = 0-250</b>	<b>E8</b>
	80	13	350	EY RP80	1200			
	40	4	350	EY RP40	1200			
An individual or batch analysis is available upon request at a nominal charge. Impurities listed are typical. Total impurities guaranteed < 10 ppm. Certificate of Conformance provided upon request.								
<b>Research</b>	200	33	350	EY R200	1200	<b>Single-Stage Regulator</b> Y11-215 * 350		<b>E7</b>
	80	13	350	EY R80	1200			
	40	4	350	EY R40	1200			
An individual or batch analysis is available upon request at a nominal charge. Impurities listed are typical. Total impurities guaranteed < 100 ppm. Certificate of Conformance provided upon request.								

\* Insert Delivery Pressure Range Code