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# Ethylene

## High Purity

### Pipeline Specifications

Characteristic	Molar Basis	Weight Basis	Method
Acetylene	3.0 ppm mol	2.8 ppm wt Max	ASTM D-6159
Ammonia	0.25 ppm mol	0.15 ppm wt Max	Note 1
C1 + C2	800 ppm mol	Note 2	ASTM D-6159
C3's <sup>4</sup>	10.0 ppm mol	15.0 ppm wt Max	ASTM D-6159
CO	1.0 ppm mol	1.0 ppm wt Max	ASTM D-2504
CO2	3.0 ppm mol	4.7 ppm wt Max	ASTM D-2505
DMF	0.4 ppm mol	1.0 ppm wt Max	Note 6
Ethylene	99.92 mol %	99.91 wt % Min	ASTM D-6159
H2O	7.8 ppm mol	5.0 ppm wt Max	Online Analyzer
Hydrogen	3.0 ppm mol	0.2 ppm wt Max	ASTM D-2504
MeOH	0.9 ppm mol	1.0 ppm wt Max	Note 3
Oxygen	0.5 ppm mol	0.6 ppm wt Max	Online Analyzer
Total Sulfur	0.1 ppm mol	0.1 ppm wt Max	Note 5

### Notes

1. Analysis upon request. Ammonia is trapped in 0.1 H<sub>2</sub>SO<sub>4</sub> and analyzed by ASTM D-1426.
2. Limit by weight will depend upon the relative amounts of methane and ethane present. For a molar ration of 1:10 (methane:ethane), this limit is 818 ppmw.
3. By GC.
4. C3's designated as propylene, methyl acetylene, propadiene, and propane.
5. Analysis upon request. Analytical method would be ASTM D-4045.
6. Analysis upon request.

MSDS #1852

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Another quality product from



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