

Propylene

High Purity

Pipeline Specifications

Characteristic	Molar Basis	Weight Basis	Method
Acetylene	2.0 ppm mol Max	1.0 ppm wt Max	ASTM D-2712*
Ammonia	0.50 ppm mol Max	0.20 ppm wt Max	Note 6
Arsine	0.01 ppm mol Max	0.01 ppm wt Max	Note 4
Butadiene ¹	1.0 ppm mol Max	1.3 ppm wt Max	ASTM D-2712*
C4's ²	10 ppm mol Max	13 ppm wt Max	ASTM D-2712*
CO	1.0 ppm mol Max	0.67 ppm wt Max	ASTM D-2504*
CO2	1.0 ppm mol Max	1.0 ppm wt Max	ASTM D-2505*
COS	0.02 ppm mol Max	0.03 ppm wt Max	ASTM D-5303*
Ethylene	15 ppm mol Max	10 ppm wt Max	ASTM D-2712*
H2O	12.0 ppm mol Max	5.0 ppm wt Max	Online Analyzer
Hydrogen	20 ppm mol Max	1 ppm wt Max	ASTM D-2504*
Methane + Ethane	500 ppm mol Max	357 ppm wt Max	ASTM D-2712*
Methanol	5.0 ppm mol Max	4.0 ppm wt Max	Note 7
Methyl Acetylene	2.0 ppm mol Max	2.0 ppm wt Max	ASTM D-2712*
Oxygen	3.0 ppm mol Max	2.0 ppm wt Max	Online Analyzer
Phosphine	0.10 ppm mol Max	0.10 ppm wt Max	Note 5
Propadiene	1.0 ppm mol Max	1.0 ppm wt Max	ASTM D-2712*
Propane	5000 ppm mol Max	5241 ppm wt Max	ASTM D- 2712*
Propylene	99.50 Mole % Min	99.48 Wt % Min	ASTM D-2712*
Total Sulfur	1.3 ppm mol Max	1.0 ppm wt Max	Note 3

Notes:

* Any GC method capable of meeting or exceeding the quality criteria outlined in the relevant ASTM method.

1. Butadiene specification includes 1,2-butadiene and 1,3-butadiene.
2. C4's include iso-butane, n-butane, 1-butene, t-2-butene, c-2-butene, and iso-butene.
3. Analysis upon request. Analytical method by ASTM D-4045.
4. Analysis upon request. Analysis by Rateometric Colorimetry or GC Mass Spectrometry.
5. Analysis upon request. Analysis by Rateometric Colorimetry or GC Mass Spectrometry.
6. Analysis upon request. Ammonia is trapped in 0.1M H2SO4 and analyzed by ASTM D-1426, Rateometric Colorimetry or GC methods using a nitrogen specific detector.
7. By GC.

MSDS #5349

Revision Date July, 2006

Another quality product from



The Woodlands, Texas

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Chevron Phillips Chemical Company LP does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.