


ENTERPRISE PRODUCTS OPERATING LLC
Mid-America and Seminole Pipelines Propane Specification

COMPONENT	TEST METHOD	SPECIFICATION
Propane	ASTM D-2163	90.0 Liq. Vol.% min.
Propylene	ASTM D-2163	5.0 Liq. Vol.% max.
Butanes	ASTM D-2163	2.5 Liq. Vol.% max.
Vapor Pressure @ 100 °F.	ASTM D-1267 or ASTM D-6897	208 psig max.
Volatile Residue	ASTM D-1837	-37 °F max.
Residual Matter - Residue	ASTM D-2158	0.05 ml max.
Residual Matter - Oil Stain Obs.	ASTM D-2158	Pass (See note 1)
Copper Strip Corrosion @ 100 °F	ASTM D-1838	No. 1 (See note 2)
Volatile Sulfur	STM D-2784 or ASTM D-5623	123 ppm wt. max.
Hydrogen Sulfide	ASTM D-5623	2 ppm wt. max.
Carbonyl Sulfide	ASTM D-2163	20 ppm wt. max.
Water Content	ASTM D-2713	Pass, 60 Sec Min.

NOTE ON TEST METHODS: Method numbers listed above, beginning with the letter “D,” are American Society for Testing and Materials (ASTM), Standard Test Procedures. The most recent year revision for the procedures will be used.

Contaminants -The specification defines only a basic purity for this product. This product is to be free of any contamination that might render the product unusable for its commonly used applications. Specific contaminants include (but are not limited to) dirt, rust, scale, and all other types of solid contaminants, caustics, amines, chlorides, heavy metals, oxygenates, and inerts and any component added to the product to enhance the ability to meet the specifications.

1. An acceptable product shall not yield a persistent oil ring when 0.3 ml of solvent residue mixture is added to a filter paper in 0.1 ml increments and examined in daylight after 2 minutes.
2. The use of corrosion masking agents is strictly prohibited.

Specification Committee Approval:

Steve Martindale
Quality Control

Bryan McFarland
Business Management

Rick Fullmer
Operations

Gregory Clark
Analytical Systems

Jeff Gruber
Distribution