

# Chisholm Pipeline Product Specifications

<b>Phillips 66 Pipe Line LLC</b>	<b>Effective Date: May 1, 2012</b>

## Demethanized NGL Mix (Y-1 Grade)

Specification	Test Method	Value		Notes
		Min	Max	
<b>1. COMPOSITION (LV%):</b>	GPA-2186			
Carbon Dioxide LV% of Total Ethane Volume	GPA-2186		0.35	
Methane LV% of Total Volume	GPA-2186		0.5	
Methane LV% of Ethane Volume	GPA-2186		1.5	
Ethane	GPA-2186		N/A	
Aromatics LV%	GPA-2186		10.0	
Olefins LV%	GPA-2186		1.0	
<b>2. VAPOR PRESSURE, psig @ 100°F:</b>	ASTM D-1267 OR ASTM D-2598		600	4
<b>3. CORROSION, Copper Strip @ 100°F:</b>	ASTM D-1838		No.1	
<b>4. TOTAL SULFUR, ppm wt.:</b>	ASTM D-2784 or ASTM D-5623		150	
<b>5. HYDROGEN SULFIDE (H2S)</b>	ASTM D-2420	Pass		
<b>6. CARBONYL SULFIDE (COS), ppm wt.:</b>	ASTM D-5623		10	
<b>7. DISTILLATION, End Point, °F:</b>	ASTM D-2887		375	
<b>8. COLOR, Saybolt No.:</b>	ASTM D -156	+27		
<b>9. MOISTURE CONTENT:</b>				
Free Water	Inspection		None at 34 F	2
<b>10. FLUORIDES, ppm wt.:</b>	ASTM D-7359 Or UOP-619		1	
<b>11. Oxygenates, ppm wt.:</b>	UOP-845		10	
<b>12. PRODUCT TEMPERATURE:</b>		40	100	
<b>13. OTHER DELETERIOUS SUBSTANCES:</b>	Inspection	See notes below.		1

**Notes**

1. This specification defines only a basic purity for this product. This product is to be free of any contamination or impurities that might render the product unusable for its commonly used applications or may be injurious to the pipeline's property or the property of 3<sup>rd</sup> parties, or may interfere with its transmission through the pipeline. Specific contaminants include (but are not limited to) dirt, rust, scale and other types of solid contaminants, gum, gum-producing substances, oil, inhibitors, amine, caustics, chlorides, heavy metals, glycol, oxygenates and inorganic gases or any compound added to enhance the ability to meet these specifications.
2. No moisture (free water) shall be deemed to be contained within the Y-1 product being inspected if no more than one (1) tablespoon of a second phase liquid comprised of free water, methanol, glycol, amine, or other aqueous solutions is present within the fluid sample drained from the bottom of the meter strainer basket located at the Delivery Point. If more than (1) tablespoon of any such substances is visibly present in the inspection container, then the NGL's so delivered shall be deemed to be OFF Specification.
3. For all ASTM methods the most recent year revision for the procedures will be used.
4. The referee method will be ASTM D-1267.