



STANDARD SPECIFICATION LIQUEFIED PETROLEUM GAS

Product Specifications

LPG will be delivered as single-phase pressurized liquid products and will meet the quality requirements as defined in the table below.

For the loading operation, the propane and butane products are delivered via the loading arms onto the LPG ships at approximate temperatures of - 42° C and - 6° C respectively. The exact loading temperature will be a function of the loading conditions and product composition and may vary slightly.

PROPANE	SPECIFICATION	TEST METHOD
Methane content	10 ppmv maximum	ASTM D2163
Ethane content	2.0 liqvol% maximum	ASTM D2163
Propane content	95.0 liqvol% minimum	ASTM D2163
Butanes content	3.0 liqvol% maximum	ASTM D2163
Pentanes + content	15 ppmv maximum	ASTM D2163
Olefins content	0.05 wt% maximum	ASTM D2163
Vapor pressure	200 psig max at 100° F	ASTM D1267
Corrosion (copper strip)	1 maximum	ASTM D1838
Total sulfur	15 ppmw maximum	ASTM D2784
Hydrogen sulfide content	negative	ASTM D2420
Total oxygenate content	10 ppmw maximum	TBD
Water content	10 ppmw maximum	ASTM E - 700
Residues		
1) Residue number	10 maximum	ASTM D2158
2) Oil number	Pass test requirements	ASTM D2158

BUTANE	SPECIFICATION	TEST METHOD
Methane content	10 ppmv maximum	ASTM D2163
Ethane content	10 ppmv maximum	ASTM D2163
Propane content	2.0 liqvol% maximum	ASTM D2163
Butanes content	97.0 liqvol% minimum	ASTM D2163
Pentanes + content	1.0 liqvol% maximum	ASTM D2163
Olefins content	0.1 wt% maximum	ASTM D2163
Vapor pressure	70 psig max at 100° F	ASTM D1267
Corrosion (copper strip)	1 maximum	ASTM D1838
Total sulfur	15 ppmw maximum	ASTM D2784
Hydrogen sulfide content	negative	ASTM D2420
Total oxygenate content	10 ppmw maximum	TBD
Water content	10 ppmw maximum	ASTM E - 700
Residues		
1) Residue number	10 maximum	ASTM D2158
2) Oil number	Pass test requirements	ASTM D2158