

Saudi Aramco product specification / refrigerated Propane LPG

Test	Guarantee	Method
Composition,liquid volume %		ASTM D-2163
Ethane	Max 2.0	
Propane	Min 95.0	
Butanes	Max 4.0	
Pentanes and heavier	Nil	
Total Olefins	Max 0.1	
Corrosive Compunds,Copper strip	Max No 1b	ASTM D-1838
Hydrogen Sulfide, ppm (wt) ²	Max 5	Lead acetate paper per Exxon Lab. Inspection Circular 200.14 UOP-212
Specific Gravity 60 °F/60 °F	To be reported	ASTM D-2598
Sulfur (Total),ppm (wt) (ug/g)	Max 30	ASTM D-2784/D-40454
Vapor Pressure @ 100 °F,psig (KPa(g))	Max 200 (1380)	ASTM D-2598/D-1267
Water Content, ppm (wt)	Max 10 ³	ASTM E-700

Notes:

¹ Odorant not required in refrigerated propane LPG.

² Hydrogen sulfide test required only when volatile sulfur test exceeds 5 ppm. Passing test of hydrogen sulfide shall be reported as "Not more than 5 ppm".

³ Product shall contain no free water.

⁴ ASTM D-4045 as modified by Saudi Aramco can also be used as an alternative method of testing

Saudi Aramco product specification / refrigerated Butane LPG

Test	Guarantee	Method
Composition,liquid volume %	ASTM D-2163	
Propane	Max 2.0	
Iso-butane	Max 29.0	
N-butane	Min 68.0	
Isopentane and heavier	Max 1.0	
Olefins	Max 0.1	
Corrosive Compunds,Copper strip	Max No. 1b	ASTM D-1838
Hydrogen Sulfide, ppm (wt) ²	Max 5	Exxon Laboratory Inspection Circular 200.14 or UOP212
Specific Gravity 60 °F/60 °F	To be reported	ASTM D-2598
Total Sulfur ,ppm (wt) (ug/g)	Max 30	ASTM D-2784/ D-40454
Vapor Pressure @ 100 °F,psig (KPa(g))	Max 70 (483)	ASTM D-2598/ D-1267
Water Content, ppm (wt)	Max 10 ³	ASTM E-700

Notes:

¹ Odorant not required in refrigerated propane LPG.

² Hydrogen sulfide test required only when volatile sulfur test exceeds 5 ppm. Passing test of hydrogen sulfide shall be reported as "Not more than 5 ppm".

³ Product shall contain no free water.

⁴ ASTM D-4045 as modified by Saudi Aramco can also be used as an alternative method of testing