

Propane & Butane stored in separate holds

PRODUCT SPECIFICATIONS

Mixture Percentages: Propane 50% & Butane 50%

Propane Standard Assay

Property	Units	Corporate Accepted Value
Propane	%(v/v)	≥95.96
Ethane	%(v/v)	≤2.02
Butane	%(v/v)	≤2.02
Pentane & Heavier(C5+)	%(v/v)	≤0.01
Dialkene & Alkyne	mg/kg	≤50
Total Alkene	mg/kg	≤1,000
Total Sulfur	mg/kg	≤30
Hydrogen Sulfide	mg/kg	≤10
Total Nitrogen	mg/kg	≤5
Total Oxygen	mg/kg	≤100
Oil Stain Observation	-	Pass
Evaporation Residue	ml/100ml	≤0.05
Copper Corrosion	Grade	Grade 1
Water Content	mg/kg	no free water by visual inspection
Oxide (excluding Methanol)	mg/kg	≤100
Arsenic	ug/kg	≤30
Mercury	ug/kg	≤10
Total Chlorine	mg/kg	≤1
Dioxide	ml/m ³	≤10
Alcohols	mg/kg	≤10
Isobutene	%(v/v)	(not tested)
Monoxide	ml/m ³	(not tested)
MBTE	mg/kg	(not tested)
Methanol + Iso-propanol	mg/kg	(not tested)
1-Butanol	mg/kg	(not tested)
Iso-butanol	mg/kg	(not tested)
Dimethyl Ether	mg/kg	(not tested)
Acetonitrile	mg/kg	(not tested)
Acetaldehyde	mg/kg	(not tested)
Ethyl Alcohol	mg/kg	(not tested)
Methyl Alcohol	mg/kg	(not tested)
Acetone	mg/kg	(not tested)
Propyl Aldehyde	mg/kg	(not tested)
Hydroxyl Sulfur	mg/kg	(not tested)

Butane Standard Assay

Property	Units	Corporate Accepted Value
Propane	%(v/v)	(not tested)
n-Butane + Iso-butane	%(v/v)	≥97
Iso-butane	%(v/v)	≥30
Dialkene & Alkyne	%(v/v)	≤0.5
Pentane & Heavier(C5+)	%(v/v)	≤3.2
Total Sulfur	mg/kg	≤150
Hydrogen Sulfide	mg/kg	≤10
Total Nitrogen	mg/kg	≤3.7
Total Chlorine	mg/kg	≤0.5
Oxide (excluding Methanol)	mg/kg	≤200
Oil Stain Observation	-	Pass
Evaporation Residue	ml/100ml	≤0.05
Copper Corrosion	Grade	Grade 1
Water Content	mg/kg	no free water by visual inspection
Total Alkene	%(v/v)	≤8
Dimethyl Ether	mg/kg	≤400
Acetaldehyde	mg/kg	≤15
Acetone	mg/kg	≤200
Acetonitrile	mg/kg	≤8
Hydroxyl Sulfur	mg/kg	≤2
Arsenic	ug/kg	≤30
Mercury	ug/kg	≤10
Sodium	mg/kg	(not tested)
Monoxide	ml/m ³	(not tested)
Dioxide	ml/m ³	(not tested)
Propyl Aldehyde	mg/kg	(not tested)
Ethyl Alcohol	mg/kg	(not tested)
Alcohols	mg/kg	(not tested)
Isopropanol	mg/kg	(not tested)
n-Butyl Alcohol	mg/kg	(not tested)
Total Oxygen	mg/kg	(not tested)
Methyl Alcohol+ Isopropanol	mg/kg	(not tested)
Ethane	%(v/v)	(not tested)
MBTE	mg/kg	(not tested)