ITEC
Refining and Marketing Company Ltd.

ASTM D 4806-09

Denatured Fuel Ethanol for Blending with Gasolines for Use as Automotive Spark-Ignition Engine Fuel

Specification	Value	Test Method
Ethanol, Vol. %. @ 60/60°F.(15.56/15.56°C), min	92.1	ASTM D 5501
Methanol, Vol. % @ 60/60°F.(15.56/15.56°C), max.	0.5	ASTM D 5501
Solvent-washed gum, mg/100 ml, max.	5.0	ASTM D 381
Water content, Vol. % at 60 Deg. F., max.	1.0	ASTM E 203 or E 1064
Denaturant Content, vol. %, min.	1.96	Calculated
vol. %, max.	5.0	Calculated
Inorganic Chloride content, mass ppm (mg/L), max.	10 (8)	ASTM D 7319 or 7328
Copper content, mg/kg, max.	0.1	ASTM D 1688
Acidity (as acetic acid CH_3COOH), mass % (mg/L), max.	0.007 (56)	ASTM D 1613
pH_e	6.5-9.0	ASTM D 6423
Sulfur, mass ppm, max.	30.	ASTM D 2622, D 3120 or D5453
Sulfate, mass ppm, max.	4	ASTM D 7318, D 7319, D 7328
Appearance	Visibly free of suspended or precipitated contaminants (clear and bright)	Determined at indoor ambient temperature unless otherwise agreed upon between the supplier and purchaser.