



Certificate of Analysis

Heptane- High Purity

CAS# 142-82-5

Date: March 11, 2019
 Customer: BVV
 PO: 36756
 Lot: 3202251
 Weight: 302#

CHARACTERISTICS	SPECIFICATIONS	RESULTS
Appearance	Colorless	Pass
API Gravity 60 F	72.7-74.7	74.1
Specific Gravity 60/60 F	0.686-0.690	0.6883
Density 15C kg/3	Report	688.1
High Purity Heptane Components:		
N-Heptane, wt. %	99.2 min	99.36
cis-1,2DMCYCS & MCH, wt. %	0.350 max	0.158
trans-1,2DMCYCS, wt. %	0.249 max	0.062
3 Methyl-Hexane, wt. %	0.249 max	0.144
Largest Other Single, wt. %	0.149 max	0.106
Distillation at 760 mmHg		
Initial Boiling Point	97.2 min	98.2
95% Evaporated Temperature C	Report	98.5
Dry Point C	100.5 max	98.5
Color, Saybolt	+30 min	+30
Total Sulfur, wt. ppm	1 max	LTO.1
Copper Corrosion 100 C, 2hr	1max	1-a
Nonvolatile Matter mg/10mL	1 max	0.3
Aromatics, wt. ppm	10 max	0
Benzene, wt. ppm	Report	0
Water Contents, wt. ppm	100 max	10
Doctor Test	None Detected	None Detected