



### CERTIFICATE OF ANALYSIS

Product Name Heptane  
 Grade Reagent Grade  
 Catalog # 391000REA  
 Item # 101291  
 Batch # 211129-B008322  
 Date of Manufacture: 01/15/2022  
 Recommended Retest Date: 01/14/2027  
 Customer PO # P20702  
 Packaging Type Drum Metal 55 Gal

TEST	MONO-GRAPH	SPECIFICATION	RESULT	UNITS
Appearance	Internal	Clear, Colorless Liquid	Pass	N/A
Assay (Total Isomers), corrected for water	Internal	NLT 99.0%	100.00	%
Boiling Range	Internal	92.0oC-100.0°C	Pass	N/A
Bromine Index (as Br/100g)	Internal	NMT 25 mg	2	mg
Color (APHA)	Internal	10 max.	1	N/A
Identification by IR	Internal	Conforms to Spectra	Pass	N/A
n-Heptane	Internal	NLT 25.0%	45.63	%
Residue after Evaporation	Internal	0.001% max	0.000	%
Specific Gravity	Internal	0.690-0.720@ 15.56°C	0.696	N/A
Water	Internal	0.01% max.	0.01	%

#### Certification and Compliance Statements

This lot of Heptanes complies with all of the all of the abovementioned specifications. Certain test data have been supplied by third parties.

This product is a general use solvent. It is not suitable for critical applications. Failing test results for Residue on Evaporation obtained by NMR, GC/MS, rotovap or other methods not concurrent with thus



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outlined in the most current edition of the American Chemical Society monograph for Reagent Chemicals will not be approved as valid for return.

This product is for further commercial manufacturing, laboratory or research use, and may be used as a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

**This document was electronically signed by Doug Fleischmann on 2/8/2022 7:58:33 PM to indicate Quality Assurance Approval and to release this batch.**