

**CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	HEPTANES
<b>Grade</b>	REAGENT GRADE
<b>Catalog #</b>	391000REA
<b>Lot #</b>	C21C31DRM0000HEP
<b>Date of Manufacture:</b>	04/23/21
<b>Recommended Retest Date:</b>	Five Years from Date of Manufacture

TEST	Specification	Result
Appearance	Clear, Colorless Liquid	Pass
Identification by IR	Conforms to Spectra	Pass
Assay (Total Isomers), corrected for water	NLT 99.0%	100.00%
n-Heptane	NLT 25.0%	43.16%
Color (APHA)	10 max	1
Boiling Range	92.0°C-100.0°C	Pass
Specific Gravity	0.690-0.720@ 15.6°C	0.698
Residue after Evaporation	0.001% max	0.000%
Bromine Index (as Br/100g)	NMT 25 mg	< 2 mg
Water	0.01% max.	< 0.01%

**Certification and Compliance Statements**

<p>This lot of Heptanes complies with all of the all of the abovementioned specifications. Certain test data have been supplied by third parties.</p>
<p>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 outlined in the most current edition of the American Chemical Society monograph for Reagent Chemicals will not be approved as valid for return.</p>
<p>This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.</p>
<p>This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or 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.</p>

Approved by: G.Scoca, Quality Control Chemist

Date of Approval:

04/23/2021

