

CERTIFICATE OF ANALYSIS

Product Name

ETHYL ACETATE, HPLC-UV

Grade

Meets GENERAL USE HPLC-UV GRADE Monographs

Catalog #

33000HPLC

Lot#

C21D22008

Date of Manufacture:

04/22/21

Recommended Retest Date:

Five Years from Date of Manufacture

TEST	MONO GRAPH	SPECIFICATION		RESULT
Assay (corrected for water)	ACS	99.5%, min		99.99%
Assay	NF	98.0-102.0%		
Chromatographic Purity	NF	Acetaldehyde Ethyl isobutyl ether Methyl compounds Other impurities	NMT 0.1% NMT 0.1% NMT 0.1%	None Detected None Detected None Detected
Color (APHA)	ACS	10 max	NMT 0.3%	None Detected
Identification	NF	Infrared Absorption <197F>	Co Victoria	1
Specific Gravity @ 25°C	NF	0.894-0.898		Pass
Acidity	NF ⁺	NMT 0.10mL of 0.10N NaOH for neutralization		0.897
Titrable Acid	ACS	NMT 0.0009 meq/g		0.05 mL
Readily Carbonizable Substances	NF ⁺	No dark zone develops within 15 minutes	Bit Comment	0.0003 meq/g
Substances Darkened by Sulfuric Acid	ACS ⁺	Passes Test		Pass
Limit of Methyl Compounds	NF ⁺	No violet color appears		Pass
Limit of nonvolatile residue	NF ⁺	NMT 0.02%		Pass
Residue After Evaporation	ACS+	0.003% max.		0.00%
Water	ACS	0.2% max.		0.000%
UV Absorbance	ACS/HPLC	255 nm 257 nm 263 nm 275 nm	1.00 max. 0.50 max. 0.10 max. 0.05 max.	0.01% 0.48 0.24 0.03 0.01
⁺ This test is performed		330-400 nm	0.01 max.	0.00

[†]This test is performed quarterly



CERTIFICATE OF ANALYSIS

Product Name

Grade

Catalog #

Lot # .

Date of Manufacture:

Recommended Retest Date:

HEXANES

Meets REAGENT GRADE ACS Monograph

359000ACS, zp359000ACS

C20I15DRMQ000HEX

10/20/20

Five Years from Date of Manufacture

TEST	Specification	Result	
Appearance	Clear, Colorless Liquid	Pass	
Assay (Total Hexane Isomers, plus & Methylcyclopentane)	NLT 98.5%	99.5%	
n-Hexane, vol%	45.0% min.	48.1%	
Color (APHA)	10 max	2	
Residue after Evaporation	0.001% max	0.000%	
Water Soluble Titrable Acid	0.0003 meq/g max.	0.0001 meq/g	
Sulfur Compounds (as S)	0.005% max.	< 0.005%	
Thiophene	To Pass Test	Pass	

Certification and Compliance Statements

This lot of Hexanes complies with all of the current requirements listed in the American Chemical Society monograph. 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 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 not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

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.

Approved by:

T. Boudreau, Quality Control Chemist

Date of Approval:

12/21/2020