



**PRODUCT SPECIFICATION SHEET**  
**2,2,4-TRIMETHYLPENTANE (Isooctane)**  
**GLASS PURIFIED, GLASS DISTILLED**  
**HRGC/HPLC – TRACE GRADE**

Catalog # / Product Code: 398000DIS 39800HPLC 398000ACS

Available in the following sizes:

**4x4 liter Amber Glass, 6x1 liter Amber Glass**

Gas Chromatographic Analysis of this product using an electron capture detector shows no peaks with a response greater than 10 pg/ml as Heptachlor Epoxide.

PRODUCT SPECIFICATIONS	LIMITS	TYPICAL LOT ANALYSIS
GC-ECD	10 ppt max	5 ppt
UV Absorbance @ 205 nm	1.00 max	0.398
220 nm	0.20 max	0.036
230 nm	0.10 max	< 0.008
254 nm	0.01 max	< 0.001
280 nm	0.01 max	< 0.001
Assay, (GC), min	99.8%	99.8%
Residue After Evaporation	3 ppm max	<1 ppm
Color (APHA), max	10	<5
Appearance	Clear	Clear
Water, max	0.02%	0.001%
Substances darkened by H <sub>2</sub> SO <sub>4</sub>	To Pass	Pass
Sulfur Compounds (S)	0.003% max	<0.001%
Density @ 25 C	0.690 g/ml max	0.6869g/ml
Fluorescence	1.0 ppb max	1 ppb
Refractive Index @ 25C	1.3885 – 1.3905	1.38859
Water Soluble Titrable Acid	0.003 meq/g max	<0.003 meq/g
Liquid Chromatography (ACS)	To Pass Test(s)	
Absorbance (UV)		Pass
Gradient Elution		Pass
Gradient Analysis @	254 nm	Pass
Identification (IR/GC)	To conform	Pass
Filtered to 0.2 um max	Per Lot	Pass

Form : 2,2,4-trimethylpentane ,distilled,#101,rev.2.0,10/01

**Purified, dried and distilled in glass-Suitable for:**

High Resolution Gas Chromatography, Mass Spectroscopy, Trace Organic Analysis, Pesticide Analysis, Critical HPLC, Routine HPLC Analysis. Meets All Applicable Specifications Including HPLC Grade ACS, Spectrophotometric Grade ACS & Reagent Grade ACS.

Approved By: Paul DiMarco, VP Quality Control

*This document has been electronically generated and is therefore not signed. A signed copy can be obtained from Pharmco's Quality Control office.*

FOR INDUSTRIAL OR LAB USE ONLY. Not intended as an active substance in Food or Drug. Not to be considered a Medical Device. Not intended for use as a Disinfectant as defined by the EPA. The expiration date of this product is three years from the date of manufacture. (Rev. # Disclaimer only: Rev 2.0 11/19/01 PJM)

Shipping Name:  
**Octanes**  
Hazard Class 3  
UN: 1202  
PG: I  
2,2,4-Trimethyl Pentane  
CAS NO. 940-66-1

Lot No:  
Main Catalog No:  
39900000  
Alternate Cat. No:  
39900-PLD  
39900-ALC  
4 x 4 Liters

**pharmco**  
PRODUCTS INC  
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**2,2,4-TRIMETHYL PENTANE (Isooctane)**  
**Glass Purified, Glass Distilled**

Purified, dried and distilled in glass - Suitable for: High Resolution Gas Chromatography, Mass Spectrometry, Trace Organic/Pesticide Analysis, Critical and Reverse HPLC, Study of slow ACS Specifications for Reagent, Spectrophotometry and General Use HPLC.

GC Analysis of this product using an electron capture detector shows no peaks with a response greater than 10 ppt as Heptachlor Epoxide.\*

Product Specifications	Limits	Typical Lot Analysis
GC-ECD	10ppt max.	<5ppt
UV Absorbance @ 225nm	A.U.	A.U.
225nm	0.000 max.	0.000
230nm	0.000 max.	0.000
235nm	0.000 max.	<0.000
254nm	0.010 max.	<0.001
280nm	0.010 max.	<0.001
Assay (GC), %	99.8%	99.8%
Residual After Evaporation	30ppm max.	<1ppm
Color (APHA), max.	10	<5
Appearance	Clear	Clear
Water, max.	0.02%	0.001%
Substances Detekted by H2SO4	To Pass	Pass
Sulfur Compounds (S)	0.002% max.	<0.001%
Density @ 25C	0.690 g/ml max.	0.688g/ml
Fluorescence	1.0ppb max.	<1ppb
Refractive Index @25C	1.3885-1.3900	1.38888
Water Soluble Triazole Acid	0.000 meq/g max.	<0.000 meq/g
Liquid Chromatography (ACE)	To Pass Tests	
Absorbance (UV)		Pass
Gradient Elution		Pass
Gradient Analysis @ 254nm		Pass
Identification (HPLC)	To Conform	Pass
Filtered to 0.2um max.	Per Lot	Pass

**CHEMTREC NO. 1-800-424-9300**

**Glass Distilled**

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**DANGER: FLAMMABLE LIQUID & VAPOR.** Keep away from all sources of ignition. Improper Exposure Can Result in Injury or Death. Wear all recommended protective equipment. Refer to MSDS for additional information.\*

**STORAGE AND HANDLING:** Keep in a cool, dry place. Do not expose to direct sunlight. Use only with proper personal protective equipment and ventilation. Refer to MSDS for additional information.\*

**FIRST AID: SEEK IMMEDIATE MEDICAL ATTENTION. REFER TO MSDS FOR APPROPRIATE FIRST AID FOR THIS CHEMICAL.\***

**REFER TO MSDS PRIOR TO USE.** Use Only Under Appropriate Conditions. Use Only Under Trained Supervision.\*

**FOR INDUSTRIAL OR LAB USE ONLY:** Not intended as an active substance in Food or Drug. Not to be considered a Medical Device. Not intended for use as a Disinfectant as defined by the EPA.\*

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