

**CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by INTERTEK SAI Global  
Certificate Number. QMS42099

Catalogue Number 42198  
 Lot Number 2213848  
 Description 2,2,4-Trimethylpentane,99+%,for spectroscopy ACS ACROS HPLC  
 CAS Number 540-84-1  
 Quality Test/Release Date 16/Feb/2022  
 Expiry Phrase Use with 5 years of opening.  
 Country of Origin Germany  
 Declaration of Origin Synthetic  
 BSE/TSE Not directly derived from or manufactured with any animal byproducts in any way  
 (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Absorbance @ 210 nm	A.U.	<= 1	0.065
Absorbance @ 220 nm	A.U.	<= 0.2	0.023
Absorbance @ 230 nm	A.U.	<= 0.1	0.009
Absorbance @ 240 nm	A.U.	<= 0.04	0.003
Absorbance @ 250 nm	A.U.	<= 0.01	0.001
Absorbance @ 400 nm	A.U.	<= 0.01	0
Assay (GC)	%	>= 99	99.92
Chemical form		Mobile liquid	Mobile liquid
Colour	APHA	<= 10	<10
Residue after evaporation (%)	%	<= 0.001	None Detected
Sulfur compounds (S)	%	<= 0.0005	<0.0001
Visual colour		Clear colourless	Clear colourless
Water soluble titr.Acid	meq/g	<= 0.0003	None Detected

*A. Ganatra*

Ashok Ganatra  
Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.