

9001

Certificate of Analysis

Reference Material

Product name

Propylene Glycol (Propane-1,2-diol)

Product code MM1481.00

CAS number 57-55-6

Molecular weight 76.09

Molecular formula C₃H₈O₂ 1031655 **Appearance** colourless liquid

Lot number

Long-term storage 2 to 8 °C, dark very hygroscopic

> Assay "as is" **99.1 %**

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OH

Date of shipment:

08 Oct 2019

Producer confirms that this reference material (RM) meets the specification detailed on this Certificate of Analysis for **one year** from the date of shipment, provided the substance is stored under the recommended conditions unopened in the original container.

Release by: Date of Release:	0	
Dr. Sabine Schröger Luckenwalde, 02 Oct 2019	Joia	Product Release

Organisation certified to ISO 9001 | DQS 102448 and GMP (EXCIPACTTM)

Producer: LGC GmbH Louis-Pasteur-Str. 30 D-14943 Luckenwalde Germany www.lgcstandards.com Page 1/7



Product information

For laboratory use only. Not suitable for human or animal consumption.

Before usage of the RM, it should be allowed to warm to room temperature. No drying required, as the certified value is already corrected for the content of water and other volatile materials.

The product quality is controlled by regularly performed quality control tests (retests).

Further content

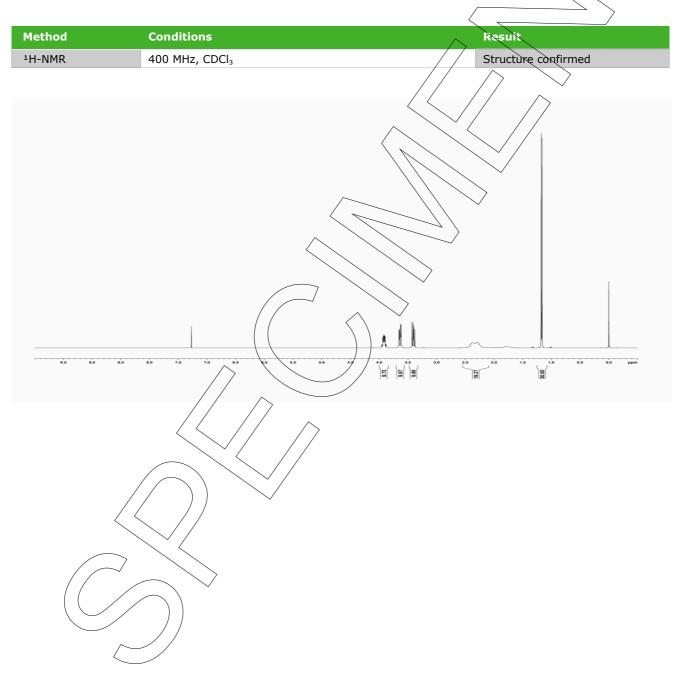
Identity Purity Final result

Revision table

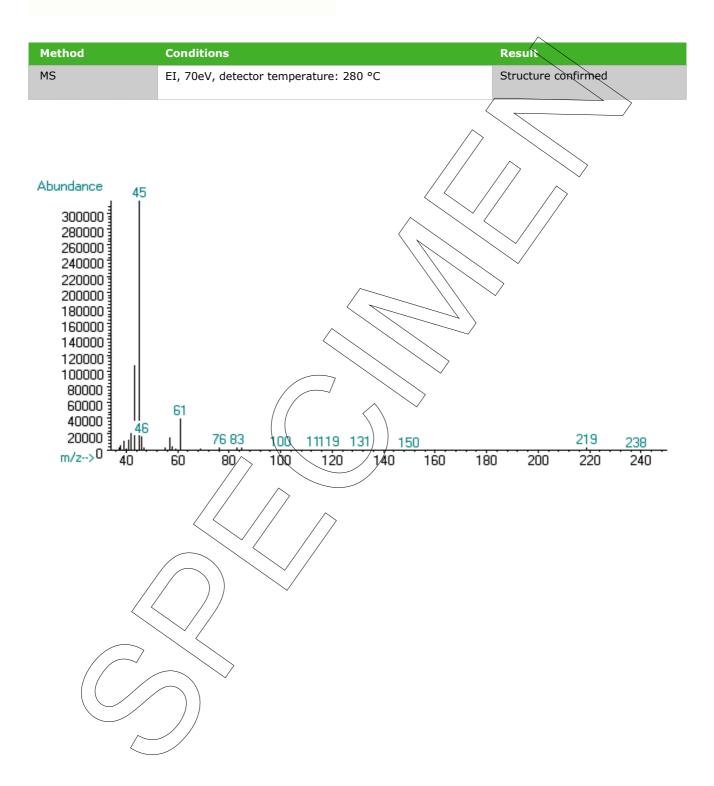


Identity

The identity of the reference material was established by following analyses.









Purity

Volatile content

Water content		
Method	Karl Fischer titration	
Result (n = 3)	0.22 %; SD = 0.03 %	

Residual solvents	
Method	1H-NMR
Result (n = 1)	No significant amounts of residual solvents were detected (< 0.05 %).



Final result

Assay "as is":

99.06 %

The assay "as is" is assessed by quantitative NMR spectroscopy and is equivalent to the assay based on the not anhydrous and not dried substance respectively.

Method: Value assigning technique - quantitative NM	IR spectroscopy
Conditions	400 MHz, CDGl ₃
Internal standard	2,3,5,6-Tetrachloro-1-nitrobenzene (certified reference material), signal 7.5 - 8.1 ppm, 1 H
Result (mass fraction, n = 3)	99.06 %; \$D = 0.12 %
uantitative NMR spectrum	



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RevisionDateReason for re0002 Oct 2019Release of the	evision
	Certificate of Analysis - initial version
roduct warranties for the RM are set out in the terms	