

VOC mix1 for HJ 642-2013, 2000 μg/mL in

Certified Reference Material

Product Name

Methanol

REFERENCE MATERIAL CERTIFICATE

ISO 17034

This certificate is designed in accordance with ISO 17034 and ISO Guide 31. This certified reference material (CRM) was designed, produced and verified in accordance with ISO/IEC 17025, ISO 17034 and a registered quality management system ISO 9001.

Product Code

DRE-GA09000552ME

Lot Number 2-H420697ME Format Multicomponent Solution Expiry Date 26 Jun 2022

Storage Temp ≤ -10 °C

Compound Name	CERTIF Concentration (mg/L)	EXPANDED EXPANDED LINE TO THE PROPERTY OF T	CAS	Lot Number	Purity (%)	Amount (mg)	RT (min)
Acetone	2000	100	67-64-1	196.271.4P	99.6	2.41	6.23
lodomethane	2010	110	74-88-4	203.9.1P	99.9	2.41	6.45
Carbon Disulfide	2003	350	75-15-0	200.18.2P	99.99	2.40	6.58
Vinyl Acetate	2000	100	108-05-4	232.271.1.1P	99.9	2.40	7.46
2-butanone (mek)	2006	110	78-93-3	197.18.1P	99.9	2.41	8.01
2-chloroethylvinyl Ether	2030	150	110-75-8	145.1.5P	99.8	2.44	10.20
4-methyl-2-pentanone (mibk)	2000	150	108-10-1	198.1.3P	99.6	2.41	10.50
2-hexanone	1988	140	591-78-6	199.7.2P	99	2.41	11.35

The producer certifies that this reference material meets the specification stated in this certificate until the expiry date, provided it is stored unopened at the recommended temperature herein. Product warranties for this reference material are set out in the terms and conditions of purchase.

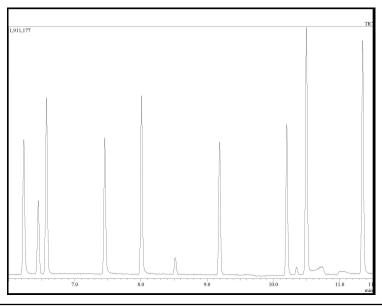
CERTIFIED BY
HuiChen Stavros, Ph.D.

CERTIFIED ON 18 Aug 2020

Hurthen Steres

RM Release

HROMATOGRAM



Instrument GC/FID

Detection FID

Column/Flow Phenomenex ZB-WAX plus 30m x 0.25 mm. ID 0.25 um / 1 mL/min

Method Details Rate Temp.(C) Hold time (min) 45.0 2.0 10.0 150.0 0.0 25.0 250.0 10.0

Inj.-Vol 1 µL

Method of Preparation

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by the appropriate analytical techniques.

Batch Information

Solvent: P/T Methanol, Lot no. 20050385, 1.2 mL

Intended Use

This CRM is intended for use in a laboratory as a calibration and quality control standard or in method development for analytical techniques.

Safety

Proper precautions should be observed while handling. See Safety Data Sheet.

Uncertainty

The certified value(s) and uncertainty(ies) are determined in accordance with ISO 17034 with an 95% confidence level (k=2). Uncertainty is based on the Total Combined Uncertainty, including uncertainties of preparation, purity of neat materials, homogeneity, long-term stability testing, and transportation stability.

Traceability

The balances used for gravimetric measurements are calibrated with weights traceable to the national standards (NIST). The calibration of the balances is verified daily internally and annually by an external accredited calibration service. Only Class A glassware is used for volumetric measurements.

Homogeneity

Random replicate samples of the final packaged CRM have been analysed to prove homogeneity consistent with ISO 17034.

Storage

The CRM should be stored in the original sealed bottle at the indicated temperature.

Instructions for Use

The CRM should be used shortly after opening to avoid concentration changes due to evaporation. It is recommended to use 1 μL as the minimum sample size. If storage after opening is necessary, it should be transferred to an amber vial with minimum head space and a Teflon lined silicon septum. If handled as recommended, use period after opening is a maximum of 114 days for an estimated 5% drift in concentration as a result of analyte and/or solvent transpiration. Visit the support section of our website lgcstandards.com for a series of Dr. Ehrenstorfer Tech Tip videos and frequently asked questions.

LGC Group

7290-B Investment Drive North Charleston, SC 29418 United States T | +1 843 763 4884 F | +1 866 509 5146 E | dr.ehrenstorfer@lgcgroup.com The producer of this reference material is registered to ISO 9001:2015 under 56 100 19560019 by TUV USA and accredited to ISO 17025:2017 and ISO 17034:2016 by A2LA with the accreditation numbers 3031.01 and 3031.02.



ISO 17034 Accredited Reference Material Producer Cert. No. 3031.02