

Certificate of Analysis

Reference Material & Standard

Product Name:	24 Organic Mix Solution in Methanol, 1000µg/mL	Catalogue Number:	MCHM706143
Appearance:	Liquid	Lot Number:	1115-SA-7899
Solvent:	Methanol	Storage:	2°C ~ 8°C Protected from light and Sealed
Expiry Date:	Nov 14, 28		

Chemical Structure:

N/A

Warning:



NO.	Component	CAS No.	Certified Concentration Value (1000µg/mL)	Uncertainty (%)
1	Ethylbenzene	100-41-4	1000.2	1.1
2	1,2-Dichloroethane	107-06-2	999.8	1.1
3	Toluene	108-88-3	1000.2	1.1
4	Chlorobenzene	108-90-7	999.9	1.1
5	Chloroprene	126-99-8	999.9	1.1
6	Tetrachloroethylene	127-18-4	999.9	1.1
7	p-xylene	106-42-3	1000.3	1.1
8	o-xylene	95-47-6	1000.1	1.1
9	m-Xylene	108-38-3	999.5	1.1
10	cis-1,2-Dichloroethene	156-59-2	999.6	1.1
11	trans-1,2-Dichloroethene	156-60-5	999.7	1.1
12	Dichloromethane	75-09-2	1000.3	1.1

Signature:

Prepared by:

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Reviewed by:

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Approved by General Manager:

David

Date: Nov 15, 24

Date: Nov 15, 24

Date: Nov 15, 24



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NO.	Component	CAS No.	Certified Concentration Value (1000µg/mL)	Uncertainty (%)
13	Isopropylbenzene	98-82-8	999.7	1.1
14	1,1-Dichloroethylene	75-35-4	999.6	1.1
15	Chloroform	67-66-3	1000.2	1.1
16	Bromoform	75-25-2	1000.1	1.1
17	Benzene	71-43-2	1000.4	1.1
18	Trichloroethylene	79-01-6	999.7	1.1
19	Carbon tetrachloride	56-23-5	999.5	1.1
20	Epichlorohydrin	106-89-8	1000.2	1.1
21	Hexachloro-1,3-butadiene	87-68-3	999.6	1.1
22	1,2-Dichlorobenzene	95-50-1	999.5	1.1
23	1,4-Dichlorobenzene	106-46-7	1000.3	1.1
24	Styrene	100-42-5	999.9	1.1

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Directions:

1. General description: This product was dissolved in Methanol and sub-packed in ampoule bottles. The outer packaging is plastic cylinder.
2. Characterization strategy: Certified reference materials were selected as raw materials. Characterization was based on the mass and volume of the components used in the preparation process. external standard method was used to verify the prepared value.
3. Metrological traceability: Through the use of raw materials with traceable purity values and tested/calibrated quality or volume measures, certified value results are ultimately traceable to SI basic units of mass kilogram (kg) and national statutory volume the unit of measurement liter (L).
4. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.
5. Minimum sample size: For once use only.
6. Instructions for handling and correct use: Please shake thoroughly before use to ensure homogeneous.

Document Version:

Revision No.	Date	Reason for Revision
01	Nov 15, 24	First release.