

Certificate of Analysis

Reference Material & Standard

Product Name:	15 Phthalate Mix Solution in Hexane, 100µg/mL	Catalogue Number:	MCFD202364
Appearance:	Liquid	Lot Number:	0216-SA-7023
Solvent:	Hexane	Storage:	2°C ~ 8°C Protected from light and Sealed
Expiry Date:	Feb 15, 29		

Chemical Structure:

Warning:



N/A

NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
1	Benzyl butyl phthalate	85-68-7	99.8	1.9
2	Dibutyl phthalate	84-74-2	99.7	1.9
3	Dicyclohexyl phthalate	84-61-7	99.9	1.9
4	Dimethyl phthalate	131-11-3	100.3	1.9
5	Dipentyl phthalate	131-18-0	100.3	1.9
6	Diethyl phthalate	84-75-3	100.0	1.9
7	Dioctyl phthalate	117-84-0	100.4	1.9
8	Bis(2-methoxyethyl) phthalate	117-82-8	99.6	1.9
9	Bis(2-ethoxyethyl) phthalate	605-54-9	99.5	1.9
10	Bis(4-methyl-2-pentyl) phthalate	84-63-9(146-50-9)	99.7	1.9
11	Bis(2-ethylhexyl) phthalate	117-81-7	100.2	1.9
12	Diallyl phthalate	131-17-9	99.7	1.9

Signature:

Prepared by:

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Reviewed by:

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Approved by General Manager:

David

Date: Feb 16, 25

Date: Feb 16, 25

Date: Feb 16, 25



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Page 1 of 6



NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
13	Dibenzyl phthalate	523-31-9	99.9	1.9
14	Diisopentyl phthalate	605-50-5	99.7	1.9
15	Isopentyl pentyl phthalate	776297-69-9	100.4	1.9

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 Hexane 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	Feb 16, 25	First release.