

# Certificate of Analysis

## Reference Material & Standard

|                      |                   |                          |                                           |
|----------------------|-------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b> | Phthalate Mix 4   | <b>Catalogue Number:</b> | MPAE111840-TO                             |
| <b>Appearance:</b>   | Colourless Liquid | <b>Lot Number:</b>       | 0929-SH-0001                              |
| <b>Solvent:</b>      | Toluene           | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Expiry Date:</b>  | Sep 27, 2028      |                          |                                           |

**Shipping Condition:** Shipping at Room Temperature

**Chemical Structure:**

N/A

| NO. | Component                          | CAS No.  | Certified Concentration Value<br>(µg/mL) | Uncertainty<br>(%) |
|-----|------------------------------------|----------|------------------------------------------|--------------------|
| 1   | Phthalic Acid, Bis-Butyl Ester     | 84-74-2  | 995.5                                    | 5.2                |
| 2   | Benzyl butyl phthalate             | 85-68-7  | 1005.4                                   | 5.1                |
| 3   | Bis(2-ethylhexyl) phthalate        | 117-81-7 | 1002.7                                   | 5.1                |
| 4   | Phthalic Acid, Bis-Iso-Butyl Ester | 84-69-5  | 996.7                                    | 5.2                |

## 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.

CATO Research Chemicals Inc.

**Signature:**

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Date: Sep 29, 2026

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