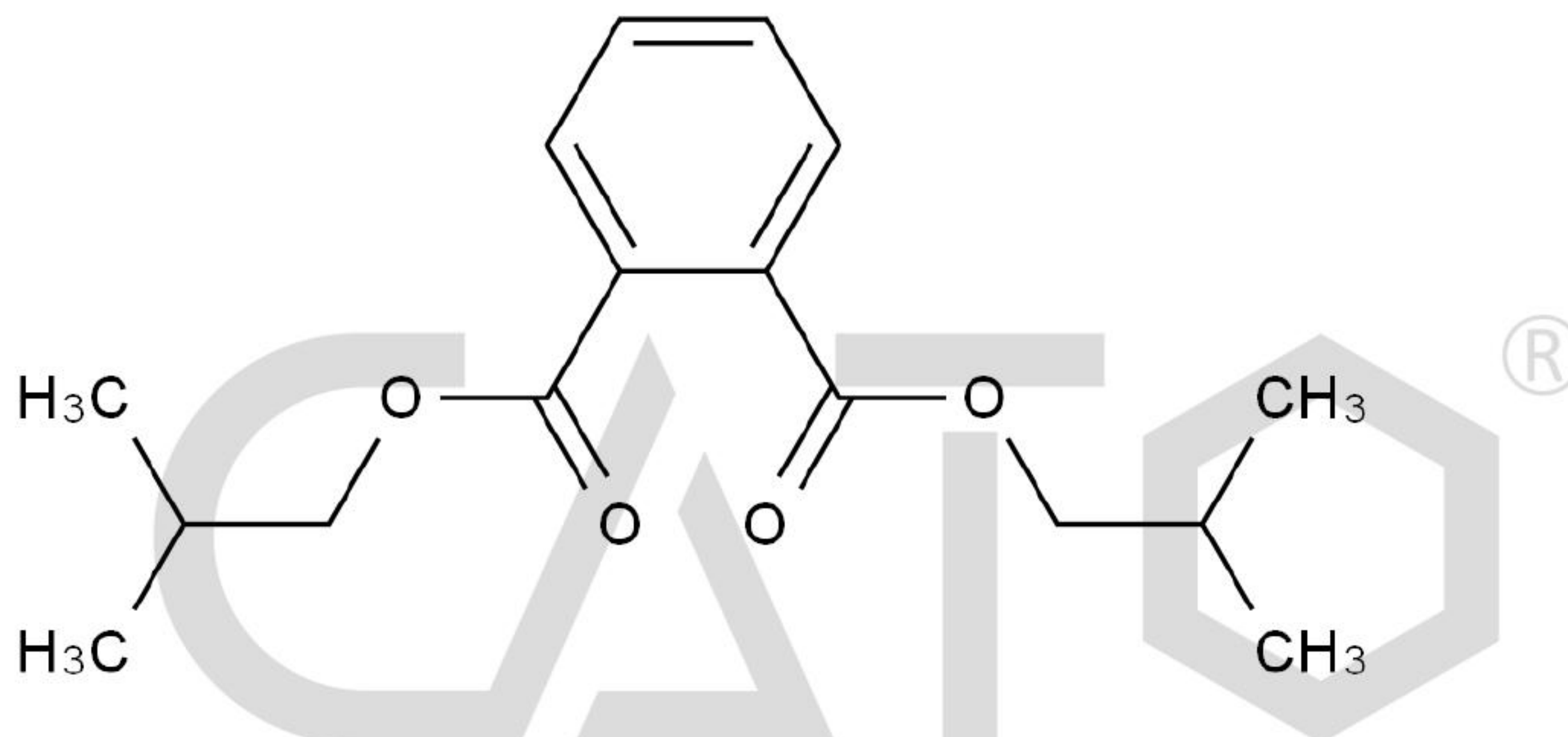


Certificate of Analysis

Reference Material & Standard

Product Name:	Phthalic Acid, Bis-Iso-Butyl Ester	Catalogue Number:	CPAE111710
Synonyms:	N/A	Lot Number:	1-F-380
CAS Number:	84-69-5	Expiry Date:	Jul 03, 2029
Molecular Formula:	C ₁₆ H ₂₂ O ₄	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	278.34	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colorless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.388%
Loss On Drying	TGA	1.1388%
Assay		98.3%
Uncertainty		±0.3%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss On Drying) * Purity GC (%) / 100%

Loss On Drying is considered as absolute effect, GC purity is considered as relative effect.

2. 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.

Signature:

Prepared by:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Jul 04, 2025

Date: Jul 04, 2025

Date: Jul 04, 2025

