

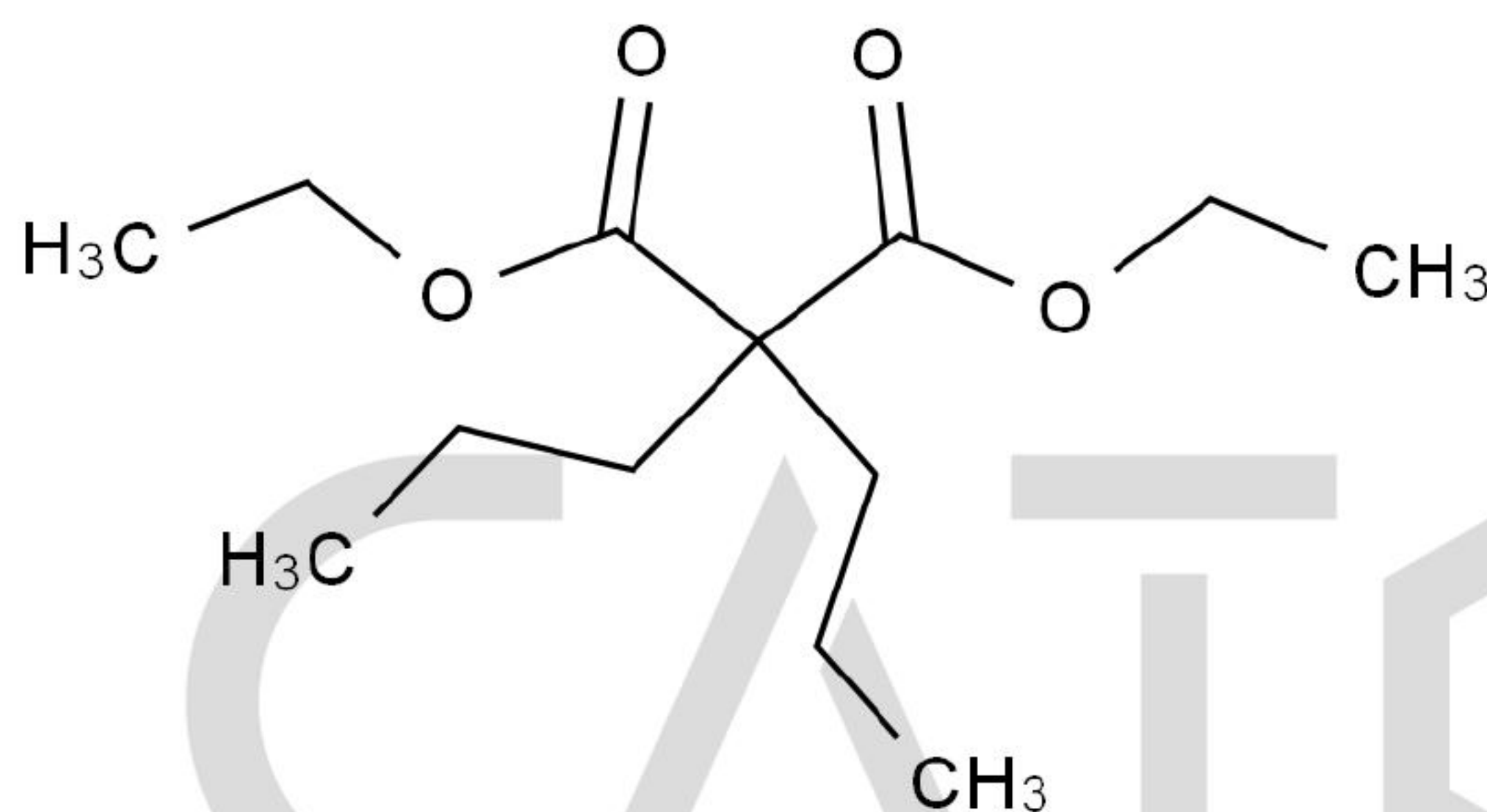
Certificate of Analysis

Reference Material & Standard

Product Name:	Valproate Impurity 47	Catalogue Number:	C4X-116647
Synonyms:	Dipropyl-malonic Acid Diethyl Ester	Lot Number:	1217-RB-0015
CAS Number:	6065-63-0	Expiry Date:	Dec 10, 2027
Molecular Formula:	C ₁₃ H ₂₄ O ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	244.33	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.546%
Water Content	Karl Fischer	0.6612%
Assay		98.9%

Comment:

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

Assay (%) = (100% - Water Content) * Purity GC (%) / 100%

Water Content is considered as absolute effect, GC purity is considered as relative effect.

Signature:

Prepared by:

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Reviewed by:

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Approved by General Manager:

David

Date: Dec 11, 2024

Date: Dec 12, 2024

Date: Dec 12, 2024

