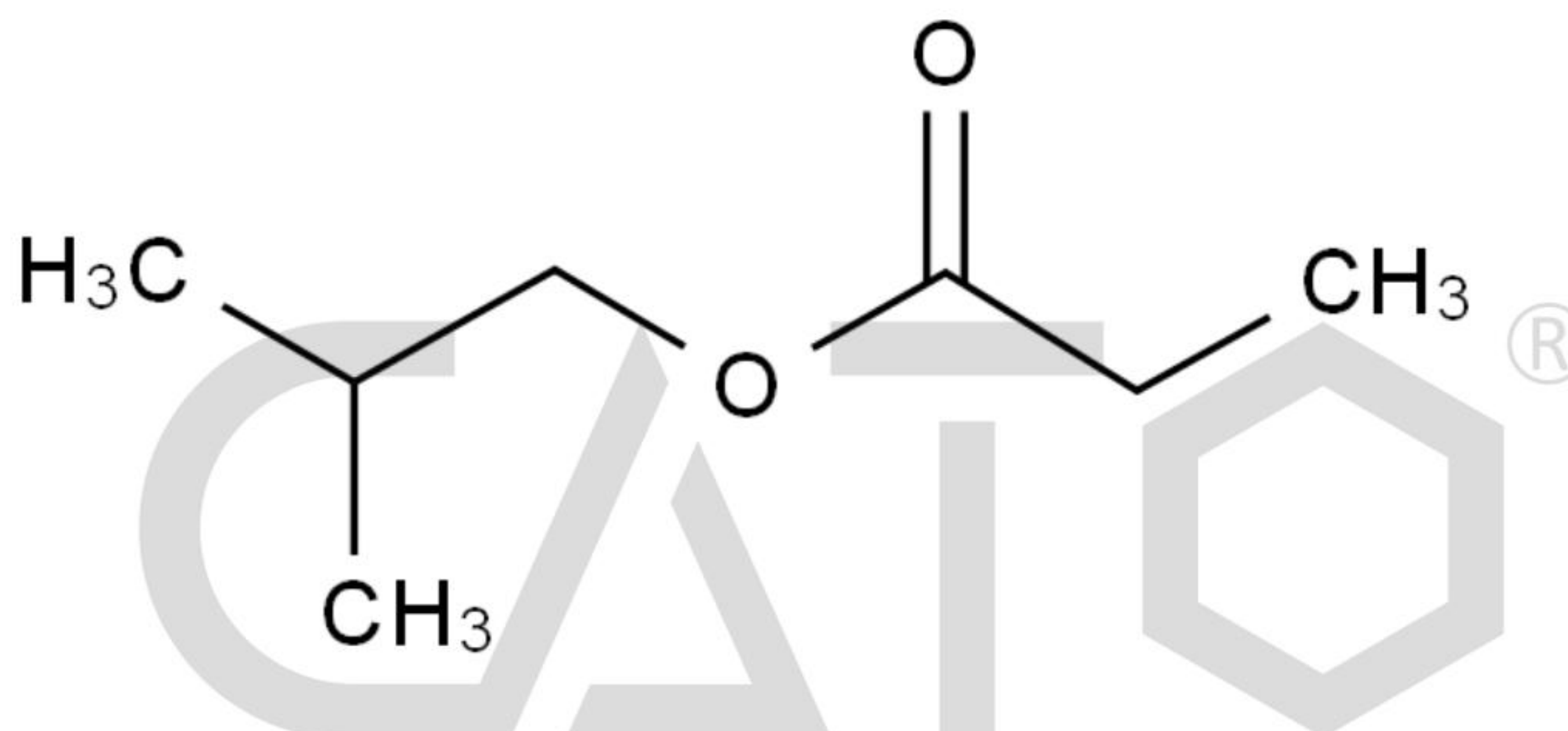


Certificate of Analysis

Reference Material & Standard

Product Name:	Isobutyl Propionate	Catalogue Number:	CCHM703944
Synonyms:	N/A	Lot Number:	0525-RE-0024
CAS Number:	540-42-1	Expiry Date:	May 30, 2027
Molecular Formula:	C7H14O2	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	130.18	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	98.963%
Water Content	Karl Fischer	0.2696%
Assay		98.7%
Uncertainty		±2.0%

Comment:

1. 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.

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:

Hin Lam

Reviewed by:

Lisa

Aproved by General Manager:

David

Date: May 31, 2023

Date: Jun 01, 2023

Date: Jun 01, 2023

