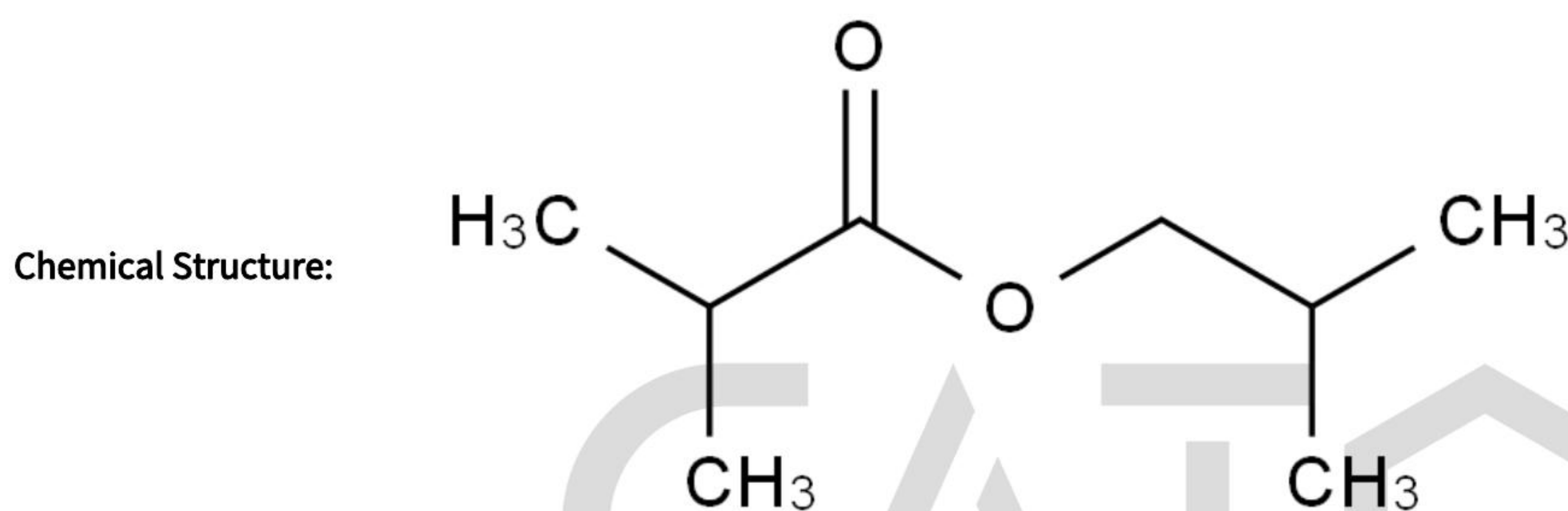


Certificate of Analysis

Reference Material

Product Name:	Isobutyl Isobutyrate	Catalogue Number:	CCHM701434
Chemical Name:	N/A	Lot Number:	0306-RA-0012
CAS Number:	97-85-8	Expiry Date:	Sep 22, 2026
Molecular Formula:	C ₈ H ₁₆ O ₂	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	144.21		



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.102%
Water Content	Karl Fischer	0.4478%
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:

Debia

Reviewed by:

Xenia

Aproved by General manager:

David

Date: Sep 23, 2022

Date: Sep 26, 2022

Date: Sep 26, 2022

