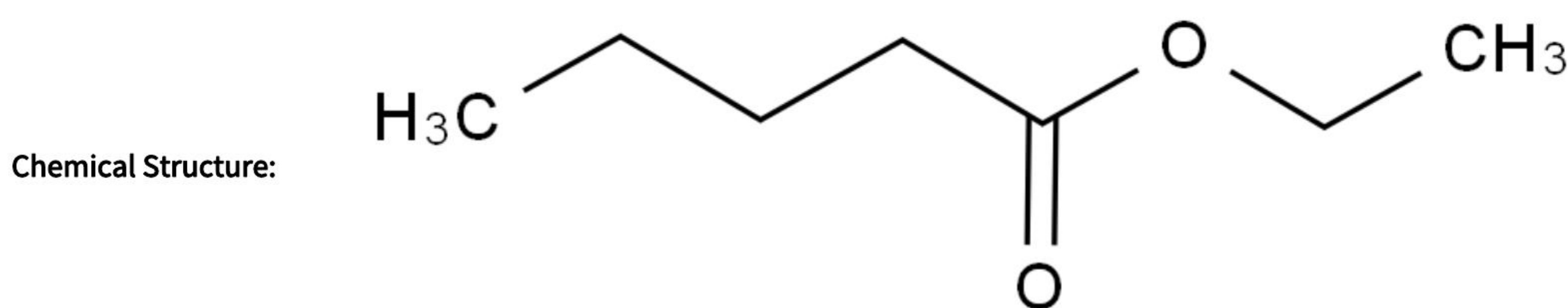


Certificate of Analysis

Reference Material

Product Name:	Valeric Acid Ethyl Ester	Catalogue Number:	CCFD200273
Chemical Name:	N/A	Lot Number:	1206-RD-0043
CAS Number:	539-82-2	Expiry Date:	Dec 07, 2026
Molecular Formula:	C ₇ H ₁₄ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	130.18		



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.692%
Water Content	Karl Fischer	0.1196%
Assay		99.6%
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:

Delia

Reviewed by:

Xenia

Aporoved by General manager:

David

Date: Dec 08, 2022

Date: Dec 09, 2022

Date: Dec 09, 2022

