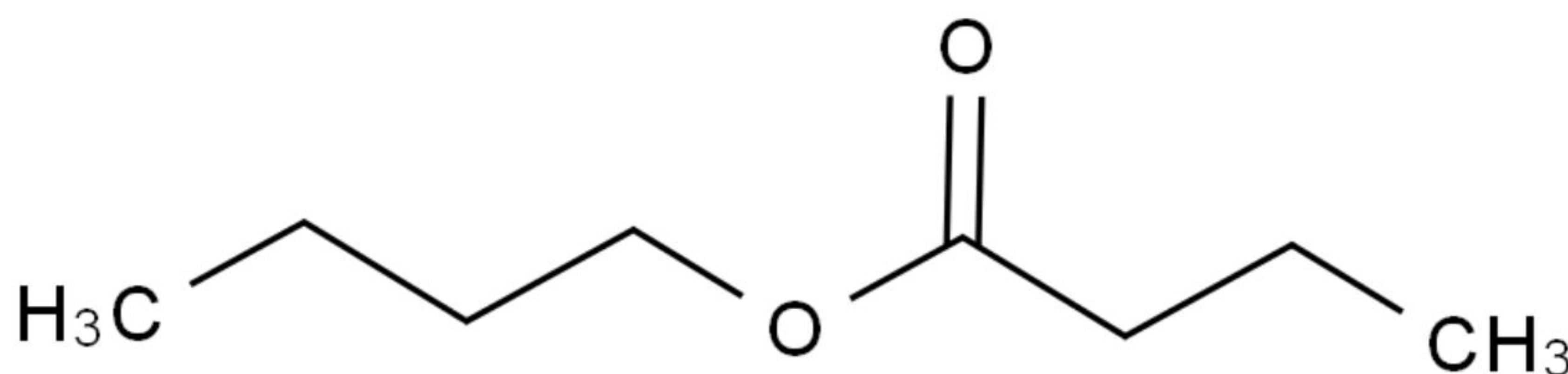


Certificate of Analysis

Reference Material

Product Name:	Butyl butyrate	Catalogue Number:	CCFD200065
Chemical Name:	N/A	Lot Number:	0610-RD-0060
CAS Number:	109-21-7	Expiry Date:	Jun 14, 2026
Molecular Formula:	C ₈ H ₁₆ O ₂	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	144.21		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	100.000%
Water Content	Karl Fischer	0.3773%
Assay		99.6%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% method follows the formula:

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity GC (\%)} / 100\%$$

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:

Cady

Aporoved by General manager:

David

Date: Jun 15, 2022

Date: Jun 15, 2022

Date: Jun 15, 2022

