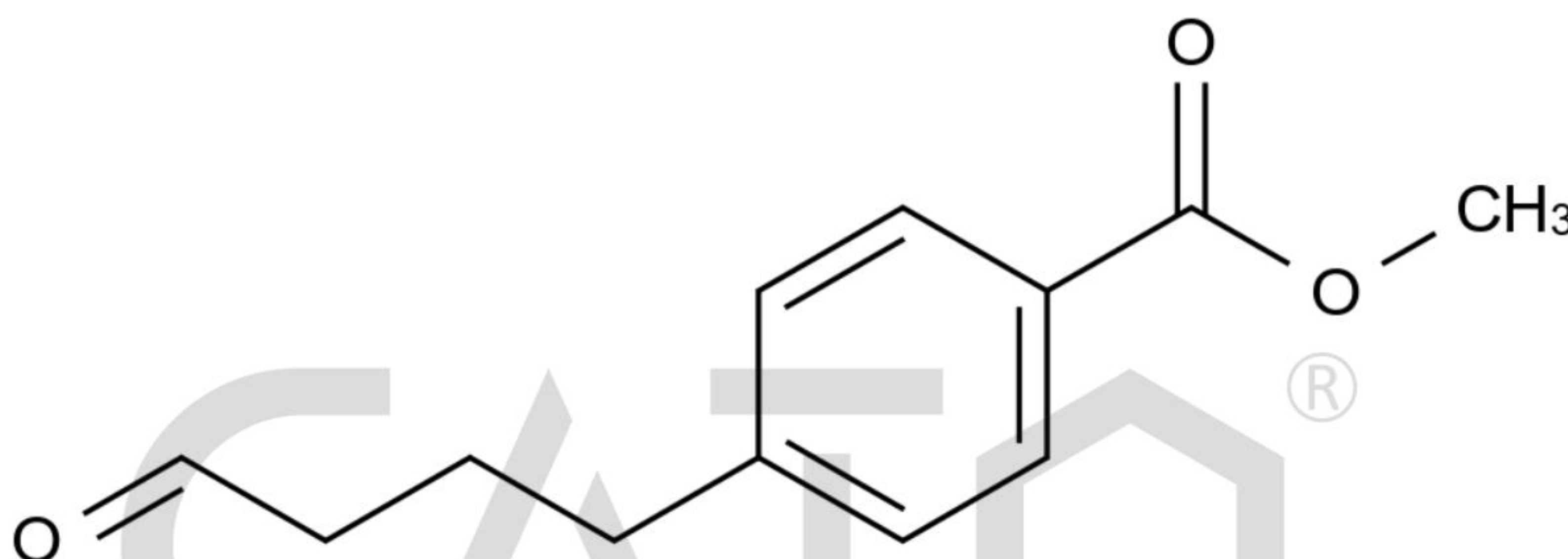


Certificate of Analysis

Reference Material & Standard

Product Name:	4-(4-Oxobutyl)benzoic Acid Methyl Ester	Catalogue Number:	CCHM702613
Synonyms:	N/A	Lot Number:	0804-RG-0064
CAS Number:	106200-41-3	Expiry Date:	Aug 05, 2029
Molecular Formula:	C ₁₂ H ₁₄ O ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	206.24		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	98.509%
Loss On Drying	TGA	0.4767%
Assay		98.0%
Uncertainty		±0.4%

Comment:

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

$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity GC (\%)} / 100\%$

Loss On Drying 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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Aug 06, 2025

Date: Aug 06, 2025

Date: Aug 06, 2025

