

Certificate of Analysis

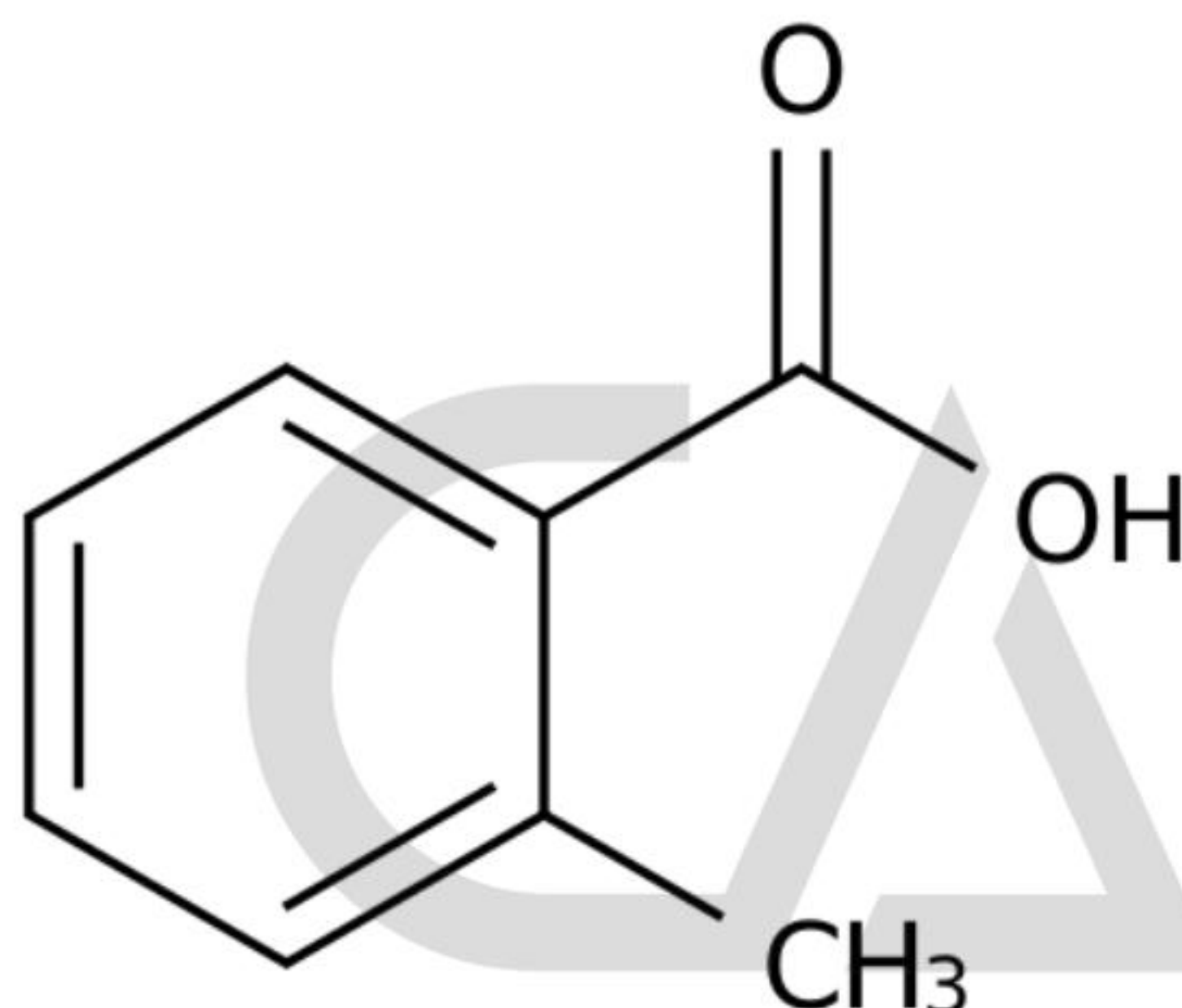
Reference Material & Standard

Product Name:	o-Toluic Acid	Catalogue Number:	CCHM703451
Synonyms:	N/A	Lot Number:	0830-RC-0038
CAS Number:	118-90-1	Expiry Date:	Sep 01, 2025
Molecular Formula:	C ₈ H ₈ O ₂	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	136.15		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	GCMS&HNMR	Confirmed
Purity	GC	100.000%
Loss on Drying	TGA	1.4191%
Assay		98.6%
Uncertainty		±2.0%

Comment:

1. The calculation of the mass balance 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:

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Reviewed by:

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Approved by General Manager:

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Date: Sep 02, 2021

Date: Sep 03, 2021

Date: Sep 03, 2021

