

Certificate of Analysis

Reference Material & Standard

Product Name:	4-Chlorobenzyl Chloride	Catalogue Number:	CCHM701263
Synonyms:	N/A	Lot Number:	1121-RG-0010
CAS Number:	104-83-6	Expiry Date:	Nov 20, 2029
Molecular Formula:	C ₇ H ₆ Cl ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	161.03	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Crystalline Solid
Identification	GCMS&CNMR&HNMR	Confirmed
Purity	GC	95.809%
Water Content	Karl Fischer	0.3352%
Assay		95.5%
Uncertainty		±0.8%

Comment:

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

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

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:

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Approved by General Manager:

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Date: Nov 21, 2025

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