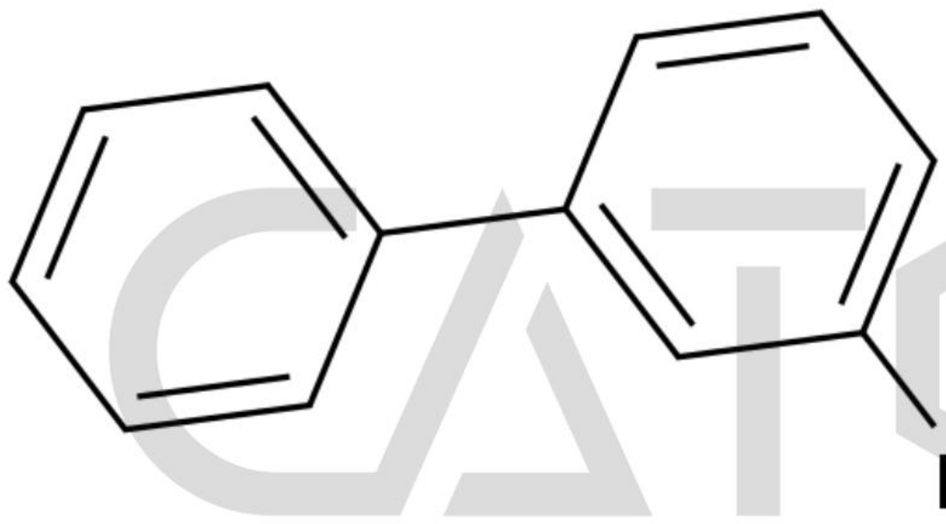
Certificate of Analysis

Reference Material & Standard

Product Name:	3-Bromobipheny	**Catalogue Number:**	CWLT600233
Synonyms:	N/A	**Lot Number:**	0428-RH-0139
CAS Number:	2113-57-7	**Expiry Date:**	May 05, 2030
Molecular Formula:	$C_{12}H_9Br$	**Storage:**	Room Temp Protected from light and Sealed
Molecular Weight:	233.10	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



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Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.474%
Loss on Drying	TGA	0.6851%
Assay		98.8%
Uncertainty		±0.2%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * 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: Alice Date: May 06, 2026

Reviewed by: Lisa Date: May 06, 2026

Approved by General Manager: David Date: May 06, 2026

CATO Research Chemicals Inc.