

Certificate of Analysis

Reference Material & Standard

Product Name:	4-Bromo-1-butanol (contains varying amounts of Tetrahydrofuran)	Catalogue Number:	C4X-245811
Synonyms:	N/A	Lot Number:	0221-RF-0021
CAS Number:	33036-62-3	Expiry Date:	Mar 23, 2030
Molecular Formula:	C ₄ H ₉ BrO	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	153.02	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	73.372%
Water Content	Karl Fischer	0.6483%
Assay		72.9%

Comment:

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.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Mar 24, 2026

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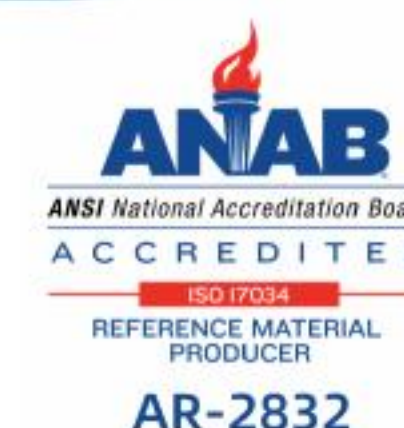
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