



CERTIFICATE OF ANALYSIS

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1. Identification

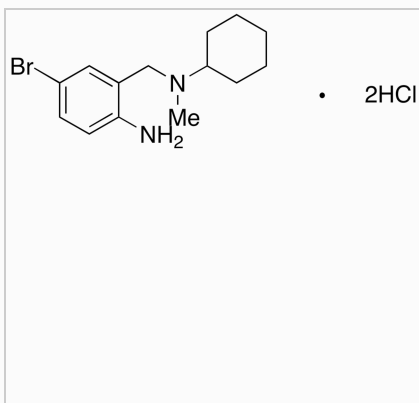
Catalogue Number: A601925

CAS Number: 10076-98-9

Product: 2-Amino-5-bromo-N-cyclohexyl-N-methylbenzylamine Dihydrochloride

Synonym: 2-Amino-5-bromo-N-cyclohexyl-N-methylbenzenemethanamine Hydrochloride; 5-Bromo-Na-cyclohexyl-Na-methyltoluene- α ,2-diamine Dihydrochloride; Bromhexine EP Impurity D

Structure:



Molecular Formula:

$C_{14}H_{23}BrCl_2N_2$

Molecular weight:

370.16

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Methanol (Slightly, Heated), Water (Slightly)

Lot Number: 11-JMR-75-1

Purity: 96%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Pale Beige Solid	Off-White to Pale Beige Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 45.10, %H: 6.41, %N: 7.50
HPLC Purity	Report Result	96.56% (245 nm)
Chloride Content	Report Result	17.96% by Ion Chromatography

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Swathi Reddy	Toni Rantanen	Chanell Chu	1/18/2022	1/16/2026