



CERTIFICATE OF ANALYSIS

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1. Identification

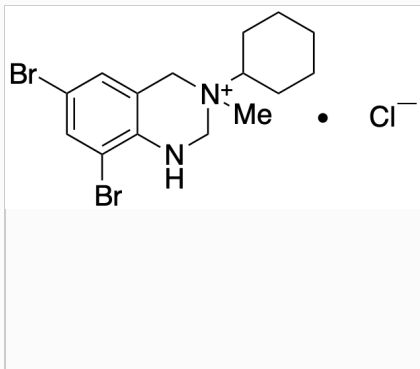
Catalogue Number: C988143

CAS Number: 1660957-93-6

Product: 3-Cyclohexyl-6,8-dibromo-3-methyl-1,2,3,4-tetrahydroquinazolinium Chloride

Synonym: 6,8-Dibromo-3-cyclohexyl-1,2,3,4-tetrahydro-3-methylquinazolinium Chloride; Bromhexine EP Impurity E Chloride;

Structure:



Molecular Formula:

C₁₅H₂₁Br₂ClN₂

Molecular weight:

424.6

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Methanol (Slightly)

Lot Number: 25-MAR-72-2

Purity: 98%

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

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 41.59, %H: 5.07, %N: 6.45
HPLC Purity	Report Result	99.94% (215 nm)
MS	Conforms to Structure	Conforms
Chloride Content	Report Result	7.77% 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
Farnaz Mahmoudi	Toni Rantanen	Chanell Chu	3/1/2023	2/27/2030