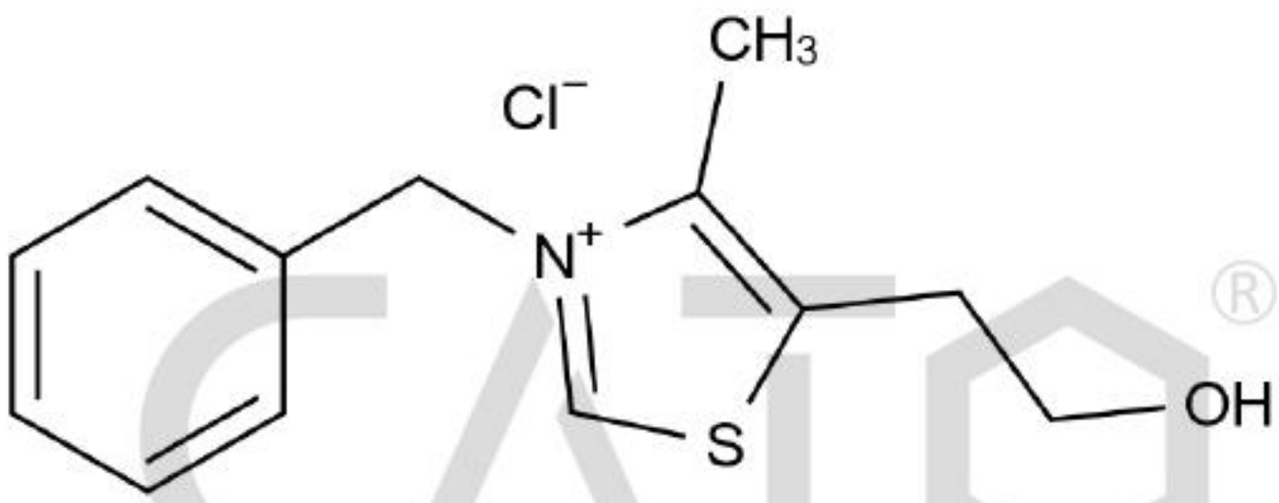
Certificate of Analysis

Reference Material & Standard

Product Name:	3-Benzyl-5-(2-hydroxyethyl)-4-methylthiazol-3-ium chloride	**Catalogue Number:**	CIM-105101
Synonyms:	N/A	**Lot Number:**	0818-SA-7730
CAS Number:	4568-71-2	**Expiry Date:**	Aug 18, 27
Molecular Formula:	$C_{13}H_{16}NOS\ Cl$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	234.34 35.45		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Solid
Identification:	LC&HNMR	Confirmed
Purity:	HPLC	98.526%
Uncertainty		±2.0%

CATO Research Chemicals Inc.

Comment:

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: Lisa Date: Aug 18, 25

Reviewed by: Yuki Date: Aug 18, 25

Approved by General Manager: David Date: Aug 18, 25

CATO Research Chemicals Inc.

Directions:

1. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.

2. Minimum sample size: 1mg is recommended as the minimum sample size.

3. Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.

4. Instructions for handling and correct use: Handling in a well-ventilated place.

Document Version:

Revision No.	Date	Reason for Revision
01	Aug 18, 25	First release.

CATO Research Chemicals Inc.