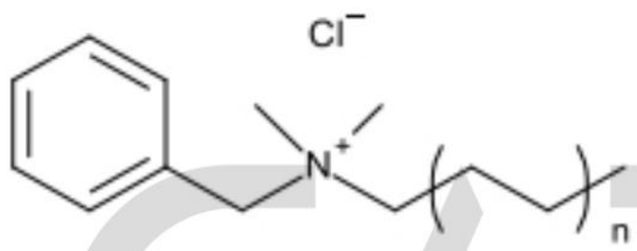
Certificate of Analysis

Reference Material & Standard

Product Name:	Benzalkonium Chloride	**Catalogue Number:**	CCPD102143
Synonyms:	N/A	**Lot Number:**	0616-RG-0092
CAS Number:	8001-54-5	**Expiry Date:**	Mar 07, 2030
Molecular Formula:	N/A	**Storage:**	Room Temp Protected from light and Sealed
Molecular Weight:	N/A	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Purity	HPLC	100.0%
Water Content	Karl Fischer	4.70%
Assay		95.3%
Uncertainty		±5.0%

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Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Water Content) * Purity HPLC (%) /100%*
Water Content is considered as absolute effect, HPLC 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: Lisa Date: Jun 26, 2026

Reviewed by: Hinlam Date: Jun 26, 2026

Approved by General Manager: David Date: Jun 26, 2026

CATO Research Chemicals Inc.