

Certificate of Analysis

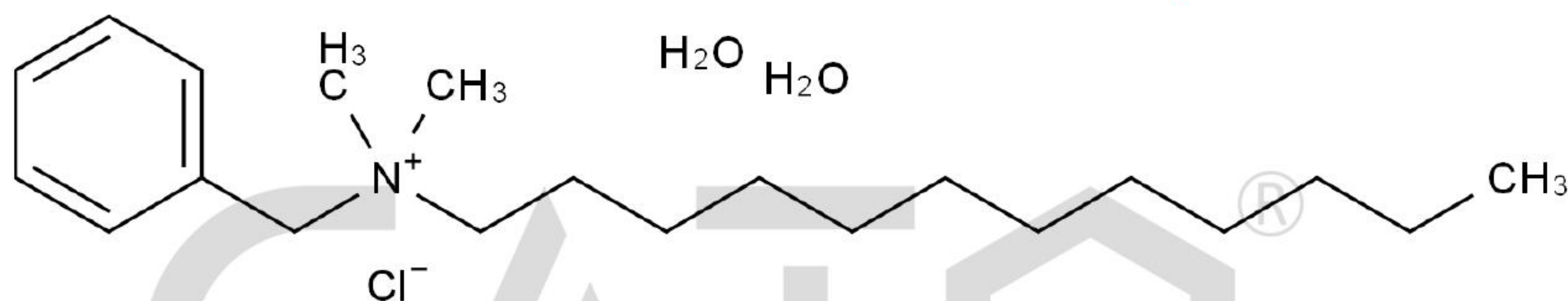
Reference Material & Standard

Product Name:	Benzyl dodecyldimethylammonium Chloride Dihydrate	Catalogue Number:	CWLT600656
Synonyms:	N/A	Lot Number:	0106-RH-0001
CAS Number:	147228-80-6	Expiry Date:	Jan 05, 2030
Molecular Formula:	C ₂₁ H ₃₈ N Cl 2*H ₂ O	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	304.53 35.45 2*18.02	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	12.0010%
Water Content(Free Water)		2.4164%
Assay		97.6%
Uncertainty		±0.3%

Comment:

- The content of crystal water is 9.5846%.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content(Free Water)}) * \text{Purity ELSD (\%)} / 100\%$$
 Water Content(Free Water) is considered as absolute effect, ELSD purity is considered as relative effect.
- 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:

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Approved by General Manager:

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Date: Jan 06, 2026

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