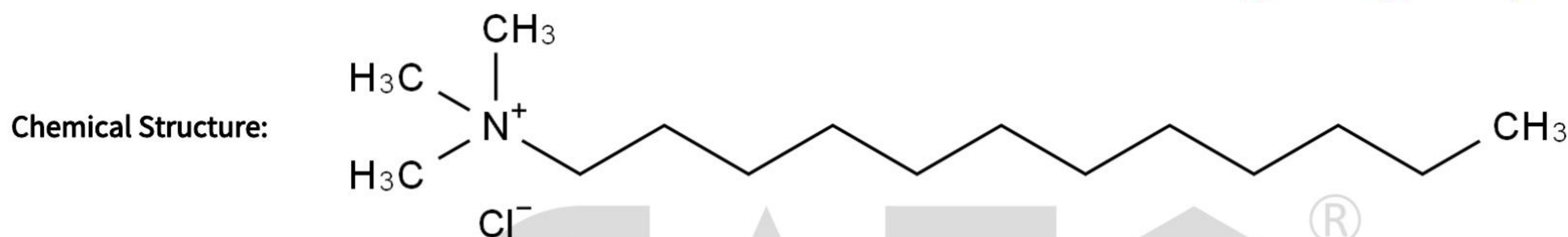


Certificate of Analysis

Reference Material & Standard

Product Name:	Dodecyltrimethylammonium Chloride	Catalogue Number:	CCHM703047
Synonyms:	N/A	Lot Number:	0325-RG-0005
CAS Number:	112-00-5	Expiry Date:	Mar 24, 2029
Molecular Formula:	C ₁₅ H ₃₄ N Cl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	228.44 35.45	Shipping Condition:	Shipping at Room Temperature

Warning:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	95.321%
Water Content	Karl Fischer	0.7680%
Assay		94.6%
Uncertainty		±2.0%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100%-Water Content) * Purity ELSD (%) / 100%

Water Content is considered as absolute effect, ELSD 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:

Nice

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Mar 25, 2025

Date: Mar 25, 2025

Date: Mar 25, 2025



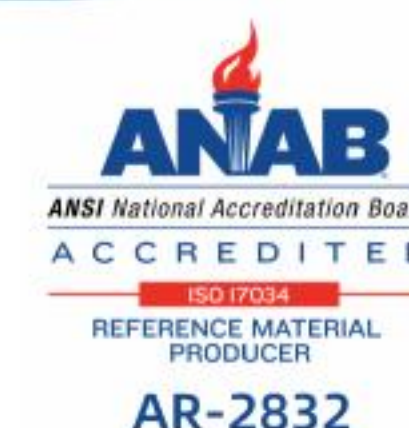
Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

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