



Certificate of Analysis

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Product Name: Acetylcholine chloride Catalog No.: 2809 Batch No.: 4

CAS Number: 60-31-1 EC Number: 200-468-8

IUPAC Name: 2-(Acetyloxy)-N,N,N-trimethylethanaminium chloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_7H_{16}CINO_2$ Batch Molecular Weight:181.66Physical Appearance:White solid

Solubility: water to 100 mM Storage: Desiccate at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure



Product Information

Print Date: Jun 29th 2021

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CAS Number: 60-31-1 EC Number: 200-468-8

IUPAC Name: 2-(Acetyloxy)-N,N,N-trimethylethanaminium chloride

Description:

Acetylcholine chloride is an endogenous neurotransmitter. Acts at nicotinic and muscarinic acetylcholine receptors.

Physical and Chemical Properties:

Batch Molecular Formula: C₇H₁₆CINO₂ Batch Molecular Weight: 181.66 Physical Appearance: White solid

Batch Molecular Structure:

Storage: Desiccate at RT. This product is packaged under an

inert atmosphere.

Solubility & Usage Info:

water to 100 mM

CAUTION - This product is very hygroscopic and we recommend that it is desiccated upon arrival.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Wessler et al (1999) The cholinergic 'pitfall': acetylcholine, a universal cell molecule in biological systems, including humans. Clin.Exp.Pharmacol.Physiol. 26 198. PMID: 10081614.