

Certificate of Analysis

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Product Name: QX 222

Catalog No.: 1043

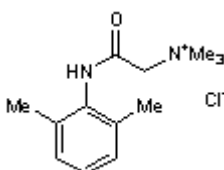
Batch No.: 1

CAS Number: 5369-00-6

IUPAC Name: 2-[(2,6-Dimethylphenyl)amino]-*N,N,N*-trimethyl-2-oxoethaniminium chloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃ H₂₁ ClN₂O
Batch Molecular Weight: 256.77
Physical Appearance: White crystalline solid
Solubility: water to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.01 (Dichloromethane:Methanol [4:1])
Melting Point: Between 253 - 254°C
¹H NMR: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen			
Theoretical	60.81	8.24	10.91	0 0 0
Found	60.45	8.45	10.88	0 0 0

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

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Description:

Sodium channel blocker.

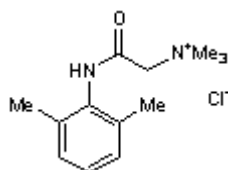
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Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

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:

Cuevas and Adams (1994) Local anaesthetic blockade of neuronal nicotinic ACh receptor-channels in rat parasympathetic ganglion cells. *Br.J.Pharmacol.* **11** 663. PMID: 7517326.

Hanck et al (1994) Kinetic effects of quaternary lidocaine block of cardiac sodium channels: a gating current study. *J.Gen.Physiol.* **103** 19. PMID: 8169596.

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