

Certificate of Analysis

Product Name: 5-Methylfurfurmethiodide

Catalog No.: 0588

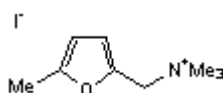
Batch No.: 2

CAS Number: 1197-60-0

IUPAC Name: (5-Methyl-2-furyl)methyltrimethylammonium iodide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₆INO
Batch Molecular Weight: 281.13
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	38.45	5.73	4.98
Found	38.31	5.73	4.97

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

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IUPAC Name: (5-Methyl-2-furyl)methyltrimethylammonium iodide

Description:

A potent muscarinic agonist.

Physical and Chemical Properties:

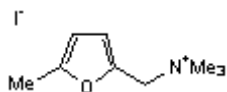
Batch Molecular Formula: C₉H₁₆INO

Batch Molecular Weight: 281.13

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO 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:

Newberry and Priestley (1987) Pharmacological differences between two muscarinic responses of the rat superior cervical ganglion *in vitro*. Br.J.Pharmacol. **92** 817. PMID: 3427281.

Roberts and Newberry (1990) A pharmacological study of the responses induced by muscarinic agonists on the isolated superior cervical ganglion of the guinea pig. Eur.J.Pharmacol. **186** 257. PMID: 2289527.

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