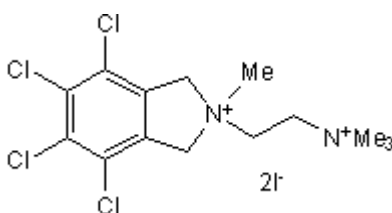


# Certificate of Analysis

**Product Name:** Chlorisondamine diiodide **Catalog No.:** 1001 **Batch No.:** 2  
**CAS Number:** 96750-66-2  
**IUPAC Name:** 4,5,6,7-Tetrachloro-1,3-dihydro-2-methyl-2-[2-trimethylammonium)ethyl]-2*H*-isoindolium diiodide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>14</sub>H<sub>20</sub>Cl<sub>4</sub>I<sub>2</sub>N<sub>2</sub>  
**Batch Molecular Weight:** 611.95  
**Physical Appearance:** White crystalline solid  
**Solubility:** water to 10 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.43 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])  
**Melting Point:** Between 239 - 241°C  
**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**<sup>13</sup>C NMR:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	27.48	3.29	4.58
Found	27.33	3.34	4.38

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

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**Description:**

An exceptionally long lasting nicotinic antagonist ( $IC_{50} \sim 1.6$  mM); blockade of central nicotinic responses induced by chlorisondamine can persist for several weeks.

**Physical and Chemical Properties:**

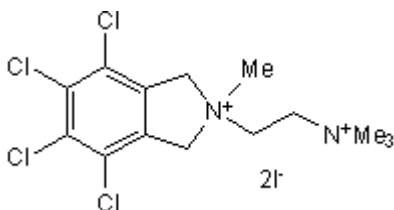
Batch Molecular Formula:  $C_{14}H_{20}Cl_4I_2N_2$

Batch Molecular Weight: 611.95

Physical Appearance: White crystalline solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Clarke et al** (1994) The pharmacology of the nicotinic antagonist, chlorisondamine investigated in rat brain and autonomic ganglion. *Br.J.Pharmacol.* **111** 397. PMID: 7911713.

**Ei-Bizri and Clarke** (1994) Blockade of nicotinic receptor-mediated release of dopamine from striatal synaptosomes by chlorisondamine and other nicotinic antagonists administered *in vitro*. *Br.J.Pharmacol.* **111** 406. PMID: 8004384.

**Ei-Bizri and Clarke** (1994) Regulation of nicotinic receptors in rat brain following quasi-irreversible nicotinic blockade by chlorisondamine and chronic treatment with nicotine. *Br.J.Pharmacol.* **113** 917. PMID: 7858886.

**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

water to 10 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.

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