

Certificate of Analysis

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Product Name: (±)-MDMA hydrochloride

Catalog No.: 3027

Batch No.: 4

CAS Number: 64057-70-1

IUPAC Name: ±-N,α-Dimethyl-3,4-methylenedioxyphenethylamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₅NO₂.HCl

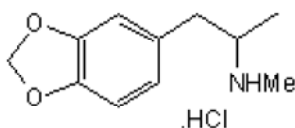
Batch Molecular Weight: 229.7

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.39 (5% (7M ammonia in MeOH)/DCM)

HPLC: Shows >99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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CAS Number: 64057-70-1

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Description:

Hallucinogenic compound that inhibits 5-HT and dopamine uptake.

Physical and Chemical Properties:

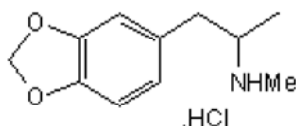
Batch Molecular Formula: C₁₁H₁₅NO₂.HCl

Batch Molecular Weight: 229.7

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Boyle et al (2007) MDMA ("ecstasy") suppresses the innate IFN-γ response in vivo: a critical role for the anti-inflammatory cytokine IL-10. *Eur.J.Pharmacol.* **572** 228. PMID: 17689526.

Fleckenstein et al (2007) New insights into the mechanism of action of amphetamines. *Annu.Rev.Pharmacol.Toxicol.* **47** 681. PMID: 17209801.

Iravani et al (2000) Direct effects of 3,4-methylenedioxymethamphetamine (MDMA) on serotonin or DA release and uptake in the caudate putamen, nucleus accumbens, substantia nigra pars reticulata, and the dorsal raphe nucleus slices. *Synapse* **36** 275. PMID: 10819905.

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