3,4-MDEA (hydrochloride) (exempt preparation)

CAS Registry No.: 74341-78-9
Formal Name: N-ethyl-alpha-methyl-1,3-benzodioxole-5-ethanamine, monohydrochloride
Synonyms: Eve, MDE, 3,4-Methylenedioxethylamphetamine
MF: C₁₂H₁₇NO₂ • HCl
FW: 243.7
Purity: ≥98% Stability: ≥2 years at -20°C

**Supplied as:** A solution in acetonitrile
UV/Vis: λ<sub>max</sub>: 237, 287 nm

**Laboratory Procedures**
For long term storage, we suggest that 3,4-MDEA (hydrochloride) (exempt preparation) be stored as supplied at -20°C. It should be stable for at least two years.

3,4-MDEA (hydrochloride) (exempt preparation) is supplied as a solution in methanol. To change the solvent, simply evaporate the methanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 3,4-MDEA (hydrochloride) (exempt preparation) in these solvents is approximately 0.3, 10, and 5 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of 3,4-MDEA (hydrochloride) (exempt preparation) is needed, it can be prepared by evaporating the methanol and directly dissolving the neat oil in aqueous buffers. The solubility of 3,4-MDEA (hydrochloride) (exempt preparation) in PBS, pH 7.2, is approximately 5 mg/ml.

We do not recommend storing the aqueous solution for more than one day.

3,4-MDEA is an N-ethyl analog of methylenedioxymethamphetamine (MDMA) which, due to similarity in psychotropic action, shares the common name of ‘ecstasy’. Both methylenedioxymethylamphetamines are regulated as Schedule I drugs in the United States. In rats, 3,4-MDEA produces significant retention deficits in learning tasks and is similar to 3,4-MDMA (Item No. 13971) in inducing serotonin release from frontal cortex/hippocampal synaptosomes. Postmortem findings in human deaths associated with 3,4-MDEA as well as 3,4-MDMA indicate striking brain and myocardial damage as well as liver necrosis. This product is intended for forensic and research applications.

**References**

**Related Products**
For a list of related products please visit: [www.caymanchem.com/catalog/15689](http://www.caymanchem.com/catalog/15689)

**WARNING:** This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

**SAFETY DATA**
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to our email at your institution.

**WARRANTY AND LIMITATION OF REMEDY**
Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals herein. Cayman Chemical Co. warrants only to the original customer that the material will conform to specifications in the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

The limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Saif refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.