Product Name: D-Amphetamine sulfate
Catalog No.: 2813
Batch No.: 8
Cas Number: 51-63-8
EC Number: 200-111-6
IUPAC Name: (++)-α-Methylphenethylamine hemisulfate salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_9H_{13}N\cdot{1/2}H_2SO_4
Batch Molecular Weight: 184.25
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at RT

2. ANALYTICAL DATA

TLC: R_f = 0.2 (Chloroform:Methanol [9:1])
HPLC: Shows 100% purity
Chiral HPLC: Shows 100% purity
^1H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Product Information

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CAS Number: 51-63-8
IUPAC Name: (+)-α-Methylphenethylamine hemisulfate salt
Catalog No.: 2813
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Description:
CNS stimulant. Targets monoamine transporters to elevate synaptic levels of noradrenalin, dopamine and serotonin. Also α7 nAChR antagonist.

Physical and Chemical Properties:
Batch Molecular Formula: C9H13N⋅1/2H2SO4
Batch Molecular Weight: 184.25
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

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.

Other Information:
INFORMATION FOR CUSTOMERS IN THE UK ONLY
This product is a Schedule 2 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.

INFORMATION FOR CUSTOMERS IN THE USA ONLY
This product is a Schedule II DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

INFORMATION FOR CUSTOMERS IN CANADA ONLY
This product is a Schedule I CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References:
Garton et al (2018) Amphetamine enantiomers inhibit homomeric α7 nicotinic receptor through a competitive mechanism and within the intoxication levels in humans. Neuropharmacology. PMID: 30359640.

