

Certificate of Analysis

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Product Name: Pemoline

CAS Number: 2152-34-3

IUPAC Name: 2-Amino-5-phenyl-4(5H)-oxazolone

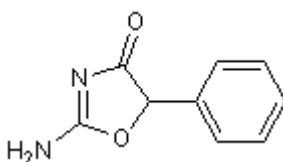
Catalog No.: 3045

Batch No.: 1

EC Number: 218-438-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₈N₂O₂
Batch Molecular Weight: 176.17
Physical Appearance: White solid
Solubility: ethanol to 10 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 253 - 254°C
HPLC: Shows >99.9% purity

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

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IUPAC Name: 2-Amino-5-phenyl-4(5H)-oxazolone

Catalog No.: 3045

EC Number: 218-438-8

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Description:

Long-acting central stimulant that induces self-injurious behavior in rats. Acts as an indirect monoamine agonist.

Physical and Chemical Properties:

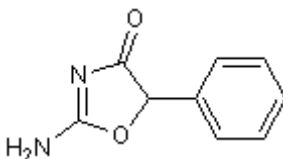
Batch Molecular Formula: C₉H₈N₂O₂

Batch Molecular Weight: 176.17

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 10 mM with gentle warming

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 4.1 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.

INFORMATION FOR CUSTOMERS IN THE USA ONLY

This product is a Schedule IV 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 IV CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References:

Muehlmann et al (2008) Pemoline (2-Amino-5-phenyl-1,3-oxazol-4-one)-induced self-injurious behavior: a rodent model of pharmacotherapeutic efficacy. *J.Pharmacol.Exp.Ther.* **324** 214. PMID: 17925479.

Kies and Devine (2004) Self-injurious behaviour: a comparison of caffeine and pemoline models in rats. *Pharmacol.Biochem.Behav.* **79** 587. PMID: 15582667.

Mueller and Nyhan (1982) Pharmacologic control of pemoline induced self-injurious behavior in rats. *Pharmacol.Biochem.Behav.* **16** 957. PMID: 6213967.

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