

## Certificate of Analysis

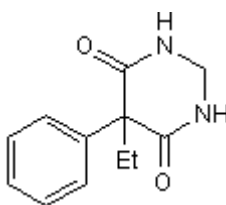
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**Product Name:** Primidone  
**CAS Number:** 125-33-7  
**IUPAC Name:** 5-Ethylidihydro-5-phenyl-4,6(1*H*,5*H*)-pyrimidinedione

**Catalog No.:** 0830  
**Batch No.:** 1  
**EC Number:** 204-737-0

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>12</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 218.11  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.5 (Ethyl acetate:Petroleum ether [1:10])  
**Melting Point:** 274°C  
**<sup>1</sup>H NMR:** Consistent with structure  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	66.04	6.47	12.84
Found	66.22	6.62	13.01

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## Product Information

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**Batch No.:** 1

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**Description:**

Anticonvulsant.

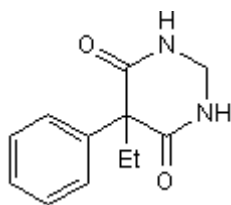
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>12</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 218.11

Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO 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.

**References:**

Merck Index **12** 7927.

**Loscher and Honack** (1989) Comparison of the anticonvulsant efficacy of primidone and phenobarbital during chronic treatment of amygdala-kindled rats. *Eur.J.Pharmacol.* **162** 309. PMID: 2721568.

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