



CERTIFICATE OF ANALYSIS

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1. Identification

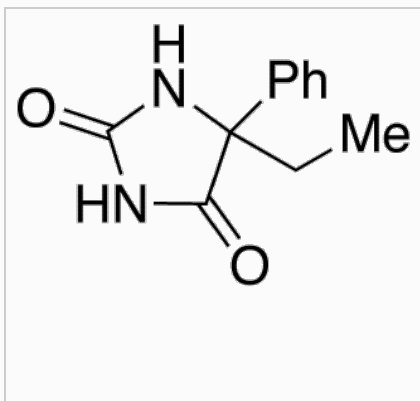
Catalogue Number: D292060

CAS Number: 631-07-2

Product: rac N-Desmethyl Mephenytoin

Synonym: (+/-)-Nirvanol; (+/-)-5-Ethyl-5-phenylhydantoin; (RS)-5-Ethyl-5-phenyl-

Structure:



Molecular Formula:

C₁₁H₁₂N₂O₂

Molecular weight:

204.23

Source of Product:

Synthetic

Solubility:

Acetone (Slightly), DMSO (Slightly), Ethanol (Slightly), Methanol (Slightly)

Lot Number: 3-MP-154-2

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Report Result	Off-White Solid
Melting Point	Report Result	197 - 200°C
H NMR	Conforms to structure	Conforms
Elemental Analysis	Conforms	%C: 64.59, %H: 5.82, %N: 13.76
MS	Conforms to structure	Conforms
HPLC Purity	>95%	98.54%

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol = 9 : 1; Visualized with UV and AMCS; Single Spot, R_f = 0.50. 1H NMR and MS conform to structure. Elemental Analysis: (Found) %C: 64.59, %H: 5.82, %N: 13.76; (Calculated) %C: 64.89, %H: 5.92, %N: 13.72

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Rhonda Tu	Eric Beaton		8/21/2018	8/19/2028