



CERTIFICATE OF ANALYSIS

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1. Identification

CAS Number:

201606-44-2

Catalogue Number:

TRC-M320475

Product:

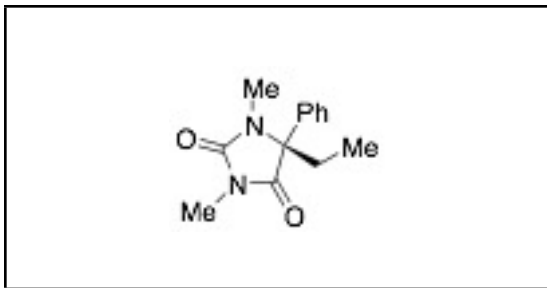
(R)-1-Methylmephenytoin

Synonyms:

[(R)-1,3-Dimethyl-5-Ethyl-5-phenylhydantoin];

(R)-5-Ethyl-1,3-dimethyl-5-phenyl-2,4-imidazolidinedione

Structure:



Molecular Formula:

C₁₃H₁₆N₂O₂

Molecular Weight:

232.28

Source of Product:

Synthetic

2. Analytical Information

Lot Number:

1-RJS-35-1

Atmosphere:

Air

Melting Point:

99 - 100°C

Solubility

Acetonitrile (Slightly), Chloroform (Slightly), Methanol (Slightly)

Appearance of Product:

White Solid

Stability

Not Determined

Method for Determining Identity:

¹H NMR (CDCl₃) and MS

Long Term Storage Condition:

4°C

Purity:

98%

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Additional Information:

TLC Conditions: SiO₂; Ethyl Acetate : Hexane = 5 : 5; Visualized with UV and AMCS; Single Spot, R_f = 0.35.

¹H NMR and MS conform to structure.

Specific Rotation: -92.1° (c = 0.2, Methanol)

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.

Philip Chan, Head of Quality Assurance

QC Test Date

August 26, 2016

Retest Date

August 24, 2023