



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

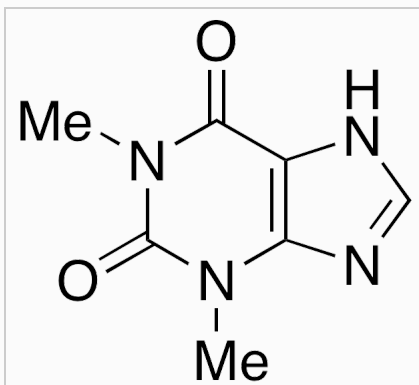
Catalogue Number: T343850

CAS Number: 58-55-9

Product: Theophylline

Synonym: 3,9-Dihydro-1,3-dimethyl-1H-purine-2,6-dione; 3,7-Dihydro-1,3-dimethyl- 1H-purine-

Structure:



Molecular Formula:

C₇H₈N₄O₂

Molecular weight:

180.16

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol (Slightly)

Lot Number: 4-MIC-129-1

Purity: 98%

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

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Elemental Analysis	Conforms	%C: 42.53, %H: 4.95, %N: 28.25
Appearance	White to Off-White Solid	White Solid
MS	Conforms to Structure	Conforms
NMR	Conforms to Structure	Conforms
Water Content	Report Result	9.3% by Karl Fischer
HPLC Purity	Report Result	100.00% (270 nm)

Additional Information: Elemental Analysis: (Theoretical) %C: 46.67, %H: 4.48, %N: 31.10

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
Toni Rantanen	Xhoana Gjergji	My Nguyen	12/9/2020	12/7/2027