



CERTIFICATE OF ANALYSIS

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1. Identification

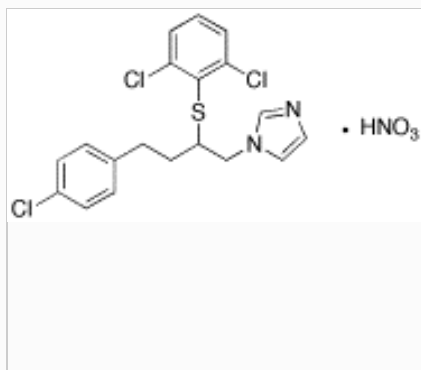
Catalogue Number: B690273

CAS Number: 64872-77-1

Product: Butoconazole Nitrate

Synonym: 1-[4-(4-Chlorophenyl)-2-[(2,6-dichlorophenyl)thio]butyl]-1H-imidazole Nitrate;

Structure:



Molecular Formula:

C₁₉H₁₈Cl₃N₃O₃S

Molecular weight:

474.79

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol (Slightly, Sonicated)

Lot Number: 5-ANR-124-1

Purity: 96%

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

Storage Condition: -20°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	Off-White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 48.68, %H: 3.95, %N: 8.83
Nitrate Content	Report Result	14.17% by Ion Chromatography
Specific Rotation	Report Result	-0.5° (c = 0.2, Methanol)
MS	Conforms to Structure	Conforms
HPLC Purity	>95%	98.31% (220 nm)

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol : Ammonium Hydroxide = 9 : 1 : 0.2; Visualized with UV and KMnO₄; Single Spot, R_f = 0.75. Elemental Analysis: (Theoretical) %C: 48.06, %H: 3.82, %N: 8.85

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

Nicole Yip



Reviewed By

Toni Rantanen



**C of A Approved
By**

My Nguyen



Test Date

12/16/2019

Retest Date

12/14/2026