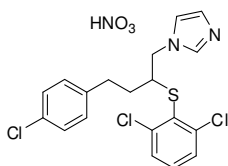




## Certificate of Analysis

**Axon Catalogue ID:** 3508 **Batch Number:** 1  
**Product Name:** Butoconazole nitrate  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 1-(4-(4-Chlorophenyl)-2-(2,6-dichlorophenylthio)butyl)-1H-imidazole nitrate

**Structure:**



**Amount:**

**CAS number(s):** 64872-76-0 (parent), 64872-77-1 (nitrate (1:1))  
**Molecular Formula:** C<sub>19</sub>H<sub>17</sub>Cl<sub>3</sub>N<sub>2</sub>S.HNO<sub>3</sub> **Molecular Weight:** 474.79  
**Batch Molecular Formula:** C<sub>19</sub>H<sub>17</sub>Cl<sub>3</sub>N<sub>2</sub>S.HNO<sub>3</sub> **Batch Molecular Weight:** 474.79  
**Appearance:** White solid **Observed mp:** 158.0 - 161.4 °C  
**TLC (R<sub>f</sub>):** 0.5 DCM/MeOH (20:1)  
**Chemical Purity:** 99.5%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 48.06, H 3.82, N 8.85; Found: C 48.11, H 3.54, N 8.77  
**Storage Conditions:** Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)	0.0	0.0	Insoluble
	0.1N HCl (aq)			Not Tested
	DMSO	47.5	>100 mM	
	EtOH	4.4	9.3	

**Remarks:**

**QC Date:** 12-11-2021

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**