

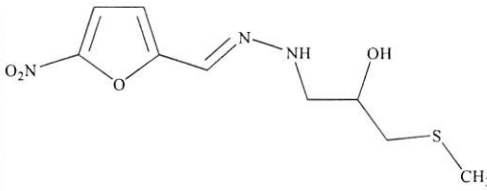


## Certificate of Analysis



Certificate No.: 20250121014

Date: January 21, 2025

Retest date: January 20, 2028

<b>Compound Name:</b>	<b>Nifuratel Impurity 1</b>	
<b>Synonyms:</b>	<i>(E)</i> -1-(methylthio)-3-(2-((5-nitrofuran-2-yl)methylene)hydrazinyl)propan-2-ol	
<b>TLC Catalogue Number:</b>	N-474	
<b>CAS Number:</b>	N/A	
<b>Molecular Weight:</b>	259.28	
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>13</sub> N <sub>3</sub> O <sub>4</sub> S	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	3519-080A5	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO	

Test Description	Specifications	Results
<b>Visual Description</b>	Red liquid	<b>Conforms</b>
<b>Identification</b>		
IR	Conforms to structure	<b>Conforms</b>
MS	Conforms to structure	<b>Conforms</b>
<sup>1</sup> H NMR	Conforms to structure	<b>Conforms</b>
<b>Elemental Analysis</b>	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.3%</b>
<b>Impurity (HPLC)</b>	RT 2.58, 0.11%; RT 2.64, 0.17%; RT 31.83, 0.10%	
<b>Water Content (KF)</b>	N/A	<b>0.7%</b>
<b>Residual Solvents (NMR)</b>	0.7% methanol	
<b>Assay (%)</b>	Not less than 90.0%	<b>97.9%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		01/21/2025
Approved by:	Quality Assurance		01/21/2025

**Attachments:** Peak Attribution Table, HPLC, IR, MS and NMR spectra.