



# CERTIFICATE OF ANALYSIS

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## 1. Identification

**CAS Number:**

66357-59-3

**Catalogue Number:**

TRC-R120000

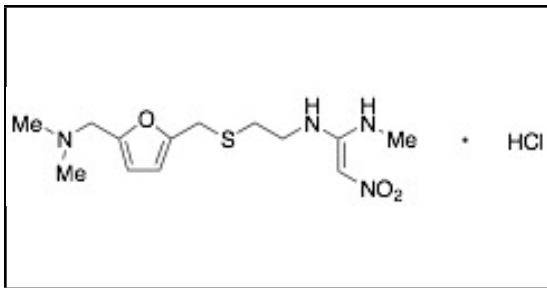
**Product:**

Ranitidine Hydrochloride

**Synonyms:**

N-[2-[[[5-[(Dimethylamino)methyl]-2-furanyl]methyl]thio]ethyl]-N'-methyl-2-nitro-1,1-ethenediamine Hydrochloride; AH 19065; Azantac; Melfax; Raniben; Ranidil; Raniplex; Zantac; Zintac

**Structure:**



**Molecular Formula:**

C<sub>13</sub>H<sub>23</sub>ClN<sub>4</sub>O<sub>3</sub>S

**Molecular Weight:**

350.86

**Source of Product:**

N/A

## 2. Analytical Information

**Lot Number:**

11-MIC-57-1

**Atmosphere:**

Inert Gas

**Melting Point:**

>137.0°C (dec.)

**Solubility**

Methanol, Water

**Appearance of Product:**

Off-White Solid

**Stability**

Hygroscopic

**Method for Determining Identity:**

<sup>1</sup>H NMR (D<sub>2</sub>O) and MS

**Long Term Storage Condition:**

-20°C, Hygroscopic

**Purity:**

98%

**Shipping Condition**

This Product Is Stable To Be Shipped At Room Temperature

99.70% by HPLC

**Additional Information:**

TLC conditions: C<sub>18</sub>; Acetonitrile : Methanol : Water = 6 : 2 : 2; Visualized with UV and AMCS; Single Spot, R<sub>f</sub> = 0.30.

<sup>1</sup>H NMR and MS conform to structure.

Chloride Content: 10.2%

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**

January 16, 2015

**Retest Date**

January 13, 2022