

## **CERTIFICATE OF ANALYSIS**

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## 1. Identification

Product:

Catalogue N661080 CAS Number: 537-29-1

Synonym: ?-(Hydroxymethyl)benzeneacetic Acid (3-

endo)-8-Azabicyclo[3.2.1]oct-3-yl Ester Hydrochloride; 1?H,5?H-Nortropan-3?-ol, (+/-)-Tropate Ester Hydrochloride; N-Demethylatropine Hydrochloride;

Noratropine Hydrochloride

Structure: H Molecular Formula: N C16H21NO3 • HCl

· HCI

**Molecular weight:** 275.35 + 36.46

Source of Product:

Synthetic **Solubility:** 

Methanol (Slightly), Water

(Slightly)

Lot Purity: 97%

Shipping This Product Is Stable To Be Condition: Shipped At Room Temperature Storage Condition: 4°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Specific Rotation Report Result  $-0.2^{\circ}$  (c = 0.6, Methanol) Appearance Pale Beige to Brown Solid Pale Beige to Light Beige Solid

NMR Conforms to Structure Conforms
MS Conforms to Structure Conforms

Elemental Analysis %C: 60.57, %H: 7.23, %N: 4.59

HPLC Purity Report Result 99.01% (210 nm)

Chloride Content Report Result 10.97% by Ion Chromatography

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm$  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 Test Date Retest Date

Neha Khanna Toni Rantanen Christina Gouliaras 5/10/2022 5/8/2026

Nehao

Joulino Soulino