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# CERTIFICATE OF ANALYSIS

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## 1. Identification

**CAS Number:**

92202-51-2

**Catalogue Number:**

D291790

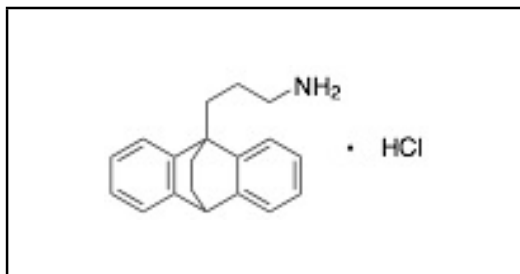
**Product:**

Desmethylnaprotiline Hydrochloride

**Synonyms:**

9,10-Ethanoanthracene-9(10H)-propylamine Hydrochloride; Demethylnaprotiline Hydrochloride; N-Desmethylnaprotiline Hydrochloride; Normaprotiline Hydrochloride; 9,10-Ethanoanthracene-9(10H)-propanamine Hydrochloride

**Structure:**



**Molecular Formula:**

C<sub>19</sub>H<sub>22</sub>ClN

**Molecular Weight:**

299.84

**Source of Product:**

Synthetic

## 2. Analytical Information

**Lot Number:**

14-UPA-86-2

**Melting Point:**

>211°C (dec.)

**Boiling Point:**

N/A

**Atmosphere:**

Inert Gas

**Appearance of Product:**

White to Off-White Solid

**Solubility**

DMSO (Slightly), Methanol (Very Slightly, Heated)

**Method for Determining Identity:**

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) and MS

**Stability**

Not Determined

**Purity:**

98%

**Long Term Storage Condition:**

Refrigerator, under inert atmosphere

**Additional Information:**

TLC Conditions: SiO<sub>2</sub>; Dichloromethane : Methanol = 9 : 1; Visualized with UV and AMCS; Single Spot, R<sub>f</sub> = 0.25.

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

Elemental Analysis: (Found) %C: 75.46, %H: 7.63, %N: 4.25; (Calculated) %C: 76.11, %H: 7.40, %N: 4.67

Chloride Content: 11.9%

Contains: 2.1% Diethyl Ether

Philip Chan, Quality Control Supervisor

**QC Test Date**

May 24, 2016

**Retest Date**

May 22, 2019