



CERTIFICATE OF ANALYSIS

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1. Identification

CAS Number:

53007-06-0

Catalogue Number:

F698970

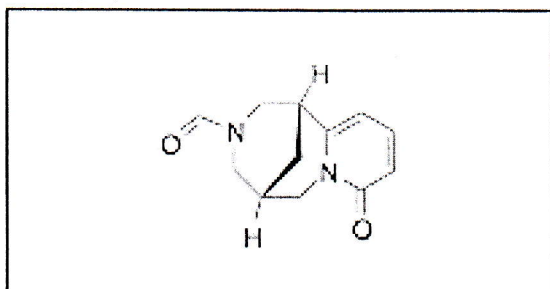
Product:

N-Formylcytisine

Synonyms:

(1R,5S)-1,5,6,8-Tetrahydro-8-oxo-1,5-methano-2H-pyrido[1,2-a][1,5]diazocine-3(4H)-carboxaldehyde; (1R)-1,5,6,8-Tetrahydro-8-oxo-1,5-methano-2H-pyrido[1,2-a][1,5]diazocine-3(4H)-carboxaldehyde; (-)-N-Formylcytisine

Structure:



Molecular Formula:

C₁₂H₁₄N₂O₂

Molecular Weight:

218.25

Source of Product:

Synthetic

2. Analytical Information

Lot Number:

1-MSI-15-1

Melting Point:

166 - 168°C

Boiling Point:

N/A

Atmosphere:

Inert Gas

Appearance of Product:

White to Off-White Solid

Solubility

Chloroform (Slightly), Ethanol (Slightly), Methanol (Slightly)

Method for Determining Identity:

¹H NMR (CDCl₃, CD₃OD) and MS

Stability

Hygroscopic

Purity:

98%

Long Term Storage Condition:

Hygroscopic, -20°C Freezer, Under inert atmosphere

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol = 9 : 1; Visualized with UV and KMnO₄; Single Spot, R_f = 0.35.

¹H NMR and MS conform to structure.

Elemental Analysis: (Found) %C: 64.47, %H: 6.48, %N: 12.48; (Calculated) %C: 66.04, %H: 6.47, %N: 12.84

Specific Rotation: -233.9° (c = 0.2, Ethanol)


Philip Chan, Head of Quality Assurance

QC Test Date
November 20, 2015

Retest Date
November 18, 2018