

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue E905900 CAS 141942-85-0 Number: Number:

> Synonym: (3R)-4-Cyano-3-hydroxybutyric Acid Ethyl

> > Ester; (R)-4-Cyano-3-hydroxybutyric Acid

Ethyl Ester; (R)-Ethyl 4-Cyano-3-

hydroxybutanoate; (R)-Ethyl 4-Cyano-3hydroxybutanoate; Ethyl (R)-4-Cyano-3hydroxybutanoate; Ethyl (R)-4-Cyano-3-

hydroxybutyrate

Molecular Formula:

C7H11NO3

Molecular weight:

157.17

Source of Product:

N/A

Solubility:

Chloroform (Sparingly), DMSO (Slightly), Methanol

(Slightly)

Purity:

98%

Storage

Condition: 4°C

Product:

(3R)-4-Cyano-3-hydroxybutanoic

Acid Ethyl Ester

Structure:

Lot Number:

22-GHZ-46-1

Shipping

This Product Is Stable To Be Condition: Shipped At Room Temperature

2. Warning

Warning 1:

Appearance

Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests: Specifications:

Results:

Colourless to Yellow Oil Clear Colourless to Pale Yellow Oil

NMR Conforms to Structure Conforms

Elemental Conforms Analysis

%C: 52.42, %H: 7.15, %N: 8.84

Conforms to Structure Conforms MS FT-IR Conforms to Structure Conforms

 -31.0° (c = 1.0, Chloroform) Specific Rotation Report REsult

TLC Conditions: SiO2; Dichloromethane: Methanol = 9:1; Visualized Additional Information: with AMCS and KMnO4; Single Spot, Rf = 0.60. Elemental Analysis:

(Theoretical) %C: 53.49, %H: 7.05, %N: 8.91

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.

4. Signatures

Reviewed By

Neha Khanna

Reviewed By

Eric Beaton

Ву My Nguyen

C of A Approved

Test Date

9/4/2019

Retest Date

9/2/2026

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