

CERTIFICATE OF ANALYSIS

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1. Identification

Product:

Structure:

Catalogue Number: R495600 CAS Number: 141-22-0

Ricinolic Acid (~80%)

Synonym: [R-(Z)]-12-Hydroxy-9-octadecenoic Acid;

Ricinoleic Acid; (9Z,12R)-12-Hydroxyoctadec-9-enoic Acid; (R)-12-Hydroxyoleic Acid; 12-D-Hydroxy-9-cis-octadecenoic Acid; 12-Hydroxycis-9-octadecenoic Acid; 12-Hydroxyoctadeca-

9-enoic Acid; CS 80; Cenwax C; Edenor Ri 90; H 1657; NSC 281242; Nouracid CS 80;

Ricinic Acid

Molecular Formula:

C18H34O3

Molecular weight:

298.46

Source of Product:

N/A Solubility:

Acetone (Sparingly),

Chloroform (Slightly), Ethyl

Acetate (Slightly)

Lot Purity: ~80% Number:

Shipping This Product Is Stable To Be Condition: Shipped At Room Temperature Storage Condition: -20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Appearance Colourless to Pale Yellow Oil Hazy Off-White Thick Oil

NMR Conforms to Structure Conforms
MS Conforms to Structure Conforms

Specific Rotation Report Result $+6.7^{\circ}$ (c = 1.0, Acetone)

GC Report Result 86.42%

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 By	Test Date	Retest Date
Nicole Yip	Toni Rantanen	Chanell Chu	10/13/2022	10/11/2026

W/WM Comm