



CERTIFICATE OF ANALYSIS

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1. Identification

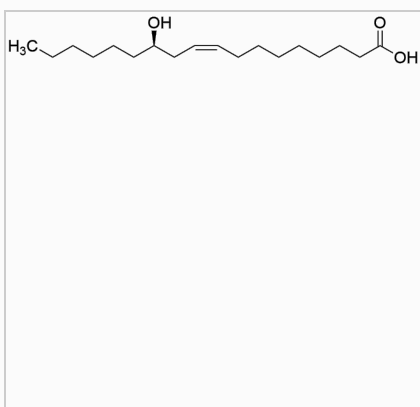
Catalogue Number: R495600

CAS Number: 141-22-0

Product: 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-Hydroxy-cis-9-octadecenoic Acid; 12-Hydroxyoctadeca-9-enoic Acid; CS 80; Cenwax C; Edenor Ri 90; H 1657; NSC 281242; Nouracid CS 80; Ricinic Acid

Structure:



Molecular Formula:

C₁₈H₃₄O₃

Molecular weight:

298.46

Source of Product:

N/A

Solubility:

Acetone (Sparingly),
Chloroform (Slightly), Ethyl
Acetate (Slightly)

Lot Number: 2022-SAP-11

Purity: ~80%

Shipping Condition: This Product Is Stable To Be
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 Pale Yellow Oil
C NMR	Conforms to Structure	Conforms
NMR	Conforms to Structure	Conforms
GC	Report Result	86.58%
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	+8.2° (c = 1.0, Acetone)
Elemental Analysis	Conforms	%C: 72.91, %H: 11.91

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 ± 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
Swathi Reddy	Toni Rantanen	Chanell Chu	7/19/2022	7/17/2026
