





Certificate of Analysis

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Structure

PRODUCT NAMECinnamic acid methylester

PART NUMBER 00003664

STANDARD TYPE Analytical Standard (AS)

LOT NUMBER 00003664-13V

REPORT NUMBER CDXA-RSS-4497-02

SAMPLE NUMBER CDXA-11-2063

DATE OF SAMPLE 03/29/2011

DATE OF RE-EVALUATION 08/03/2015 (1st); 06/09/2020 (2nd)

DATE OF REPORT 07/06/2020

CHEMICAL NAMES 3-Phenyl-2-propenoic acid methyl ester; 3-Phenylacrylic acid methyl ester;

Methyl 3-phenyl-2-propenoate; Methyl 3-phenylacrylate; Methyl cinnamate

CHEMICAL FORMULA C₁₀H₁₀O₂

MOLECULAR WEIGHT (MW) 162.19

CHEMICAL FAMILY Phenolic acids

CAS NUMBER [103-26-4]

EC#(EINECS) 203-093-8

RTECS GE0190000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
GC	0.700.10.2.METH140	NA	99.9%	
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms	
Appearance	NA	NA	White powder	

STORAGE CONDITIONS

STORAGE Room Temperature in a dry place.

EXPIRATION DATE 06/2025 under the above conditions.

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306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA).
Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com







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ANALYTICAL CONDITIONS

INSTRUMENT AGILENT 6890N WITH FLAME IONIZATION DETECTOR (FID) AND

AGILENT 5973N MASS SELECTIVE DETECTOR (MSD)

COLUMN Phenomenex Zebron ZB-5HT Inferno, 30 m x 0.32 mm x 0.25 µm; connected to an

MXT Y-union, connected to a Restek Siltek deactivated guard column: 10 m x

0.25 mm to FID; and a 5 m x 100 μ m transfer line to MSD.

CARRIER GAS Helium

COLUMN TEMP. Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C.

Hold at 340 °C for 5.0 minutes.

FLOW RATE 2.0 mL/minute

INJECTOR TEMP. 300 °C

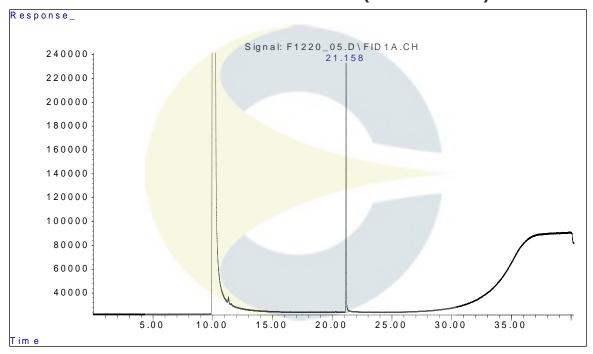
INJECTOR SPLIT RATIO 20:1

INJECTION VOL. 1.0 μL

INJECTION CONC. 1.5 mg/mL in Methanol

DETECTION FID (350 °C) & MSD (Transfer line 300 °C, Source 250 °C, Quad 200 °C)

GC CHROMATOGRAM OF CINNAMIC ACID METHYLESTER (CDXA-11-2063)



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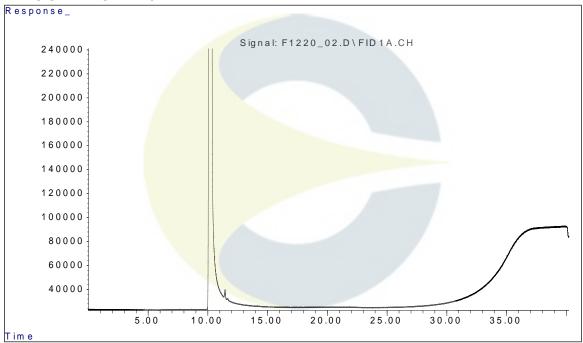




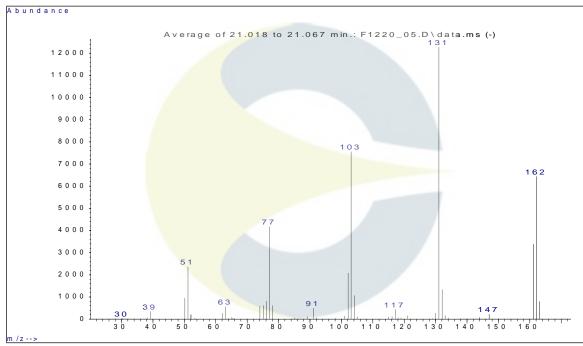
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GC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF CINNAMIC ACID METHYLESTER (CDXA-11-2063)



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REVISION HISTORY

Revision History	<u>Date of Revision</u>	<u>Document/Changes</u>
00	07/26/2011	New report
01	08/21/2015	Passed re-evaluation by GC/FID. Updated expiration date, standard type and melting point.
02	07/06/2020	Passed second re-evaluation by GC/FID MS. Updated expiration date, analytical method, conditions, chromatograms and results. Removed melting point.

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