



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

Catalog Number: 19-421

Product Name: 7-DIETHYLAMINO-3-FORMYLCOUMARIN

Lot Number: 1504592

Chemical Formula: C₁₄H₁₅NO₃

Molecular Weight: 245.28

Melting Point: 162-165°C

Appearance: Orange powder

Solubility: Soluble in chloroform

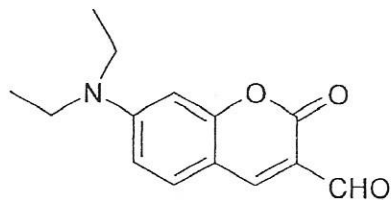
TLC: Hexane:Ethyl acetate (7:3)

Moisture(KF): 0.46%

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.31%





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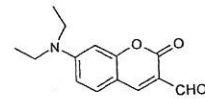
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HPLC ANALYSIS

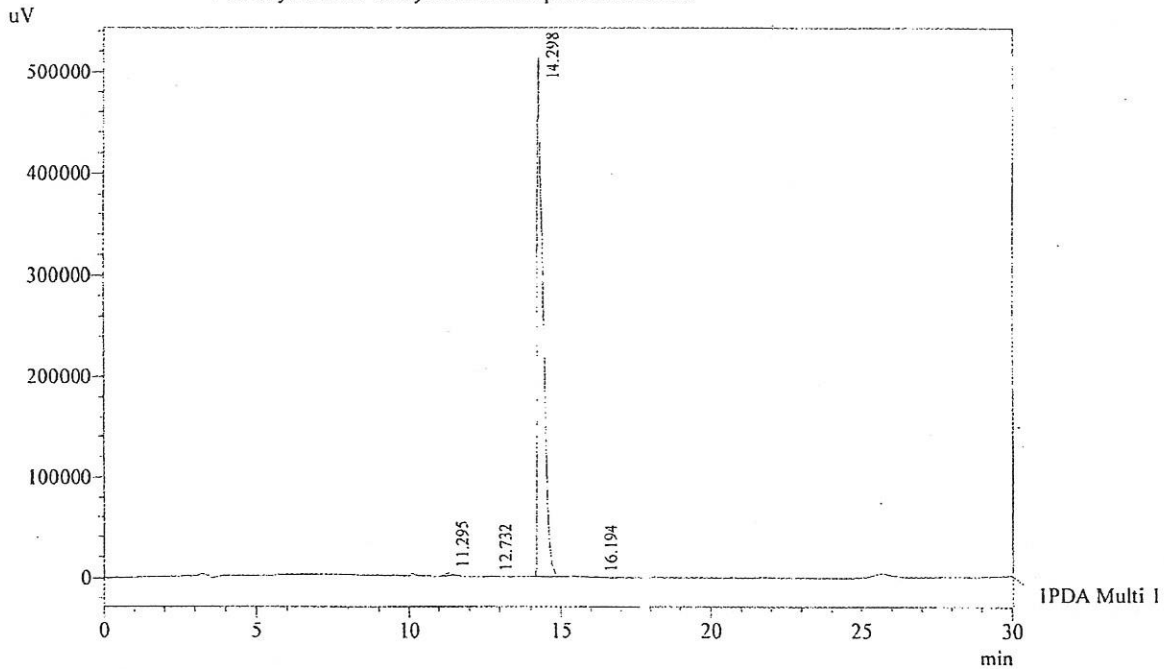
Acquired by : Admin
Sample Name : 7-Diethylamino-3-formylcoumarin
Sample ID : 200 gm
Injection Volume : 20 uL
Data Filename : 160415E.lcd
Method Filename : Linear Gradient.M.lcm

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Lot No.: 1504592



Column : Gemini C-18, (250mm x4.6mm 5.0μ)
Flow : 1.000 mL/min.
Mobile Phase : A(0.05% TFA in Water) B(Acetonitrile)
0.01 90 10
12.0 10 90
20.0 10 90
23.0 90 10
30.0 90 10
Diluent : MeOH

Chromatogram
7-Diethylamino-3-formylcoumarin D:\promonence\Data



I PDA Multi 1 / 240nm 4nm

PeakTable

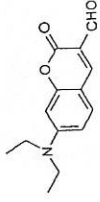
PDA Ch1 240nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:11.295	11.295	29057	0.41	0.79
2	RT:12.732	12.732	10509	0.15	0.89
3	7-Diethylamino-3-formylcoum	14.298	7026920	99.31	1.00
4	RT:16.194	16.194	9357	0.13	1.13
Total			7075842	100.00	



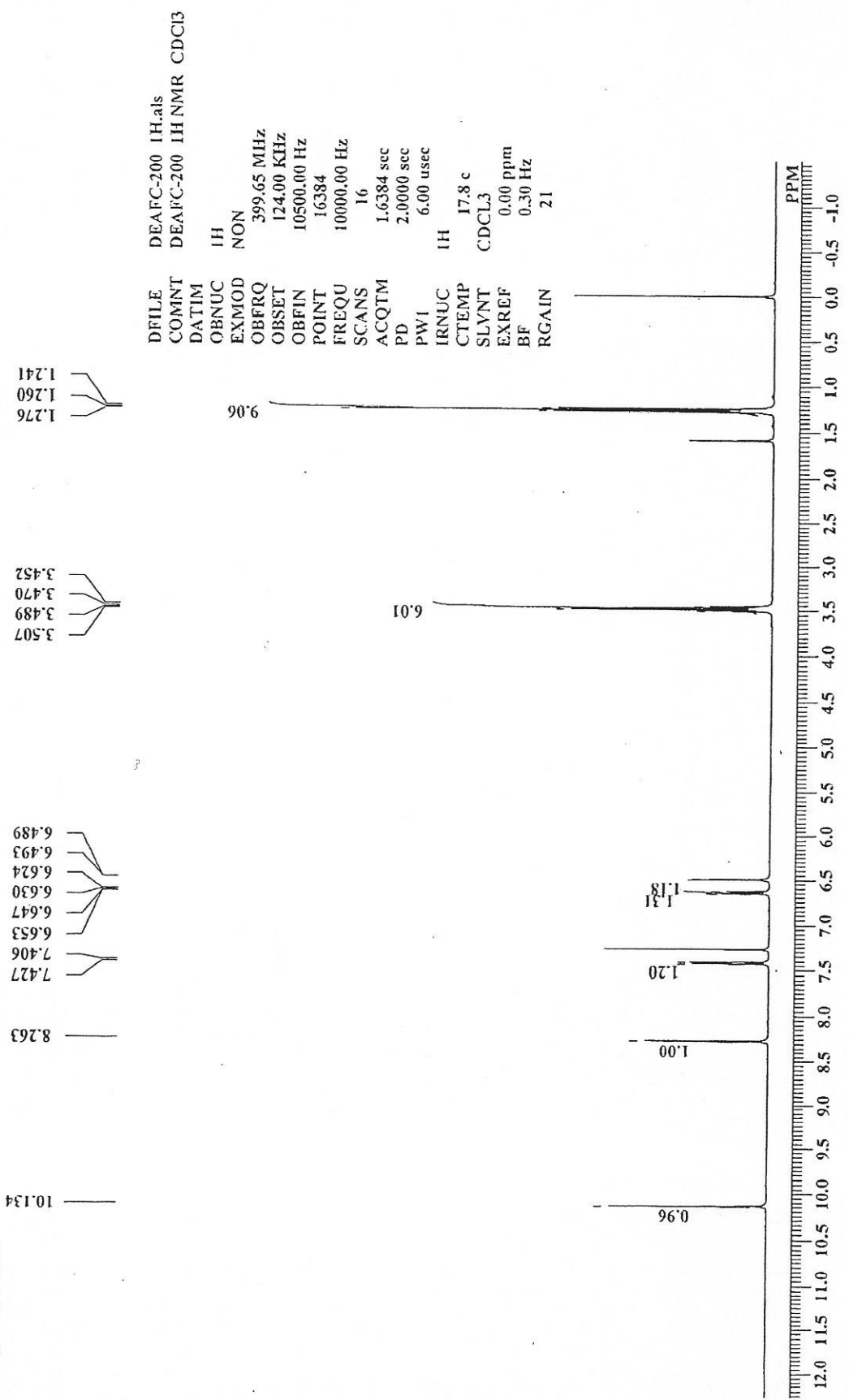
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HILLSBOROUGH, NJ 08844

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DEAFc-200 1H NMR CDCl3

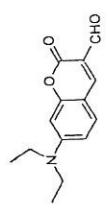
Analysed By : GBR





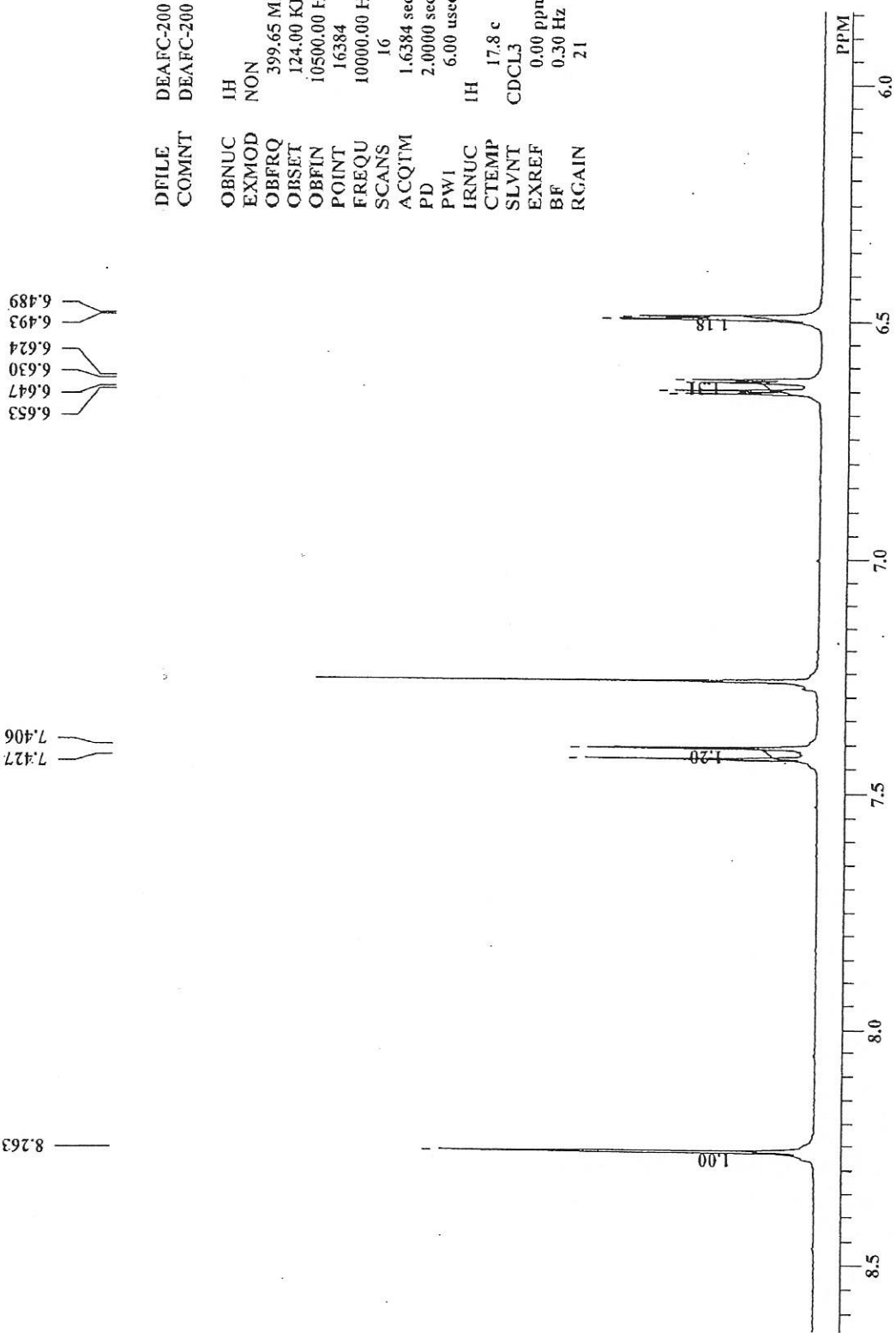
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Product Name: 7-Diethylamino-3-formylcoumarin
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DEAFC-200 1H NMR CDC13

Analysed By : GBR



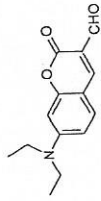
DFILE DEAFC-200 1H.als
COMINT DEAFC-200 1H NMR CDC13

OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 16384
FREQU 10000.00 Hz
SCANS 16
ACQTM 1.6384 sec
PD 2.0000 sec
PWI 6.00 usec
IRNUC 1H
CTEMP 17.8 c
SLVNT CDCL3
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 21



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DEAFC-200 1H NMR CDC13

Analysed By : GBR

3.507
3.489
3.470
3.452

1.276
1.260
1.241

DFILE	DEAFC-200 1H.als
COMNT	DEAFC-200 1H NMR CDC13
OBNUC	1H
EXMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBFIN	10500.00 Hz
POINT	16384
FREQU	10000.00 Hz
SCANS	16
ACQTM	1.6384 sec
PD	2.0000 sec
PW1	6.00 usec
IRNUC	1H
CTEMP	17.8 c
SLVNT	CDC13
EXREF	0.00 ppm
BF	0.30 Hz
RGAIN	21

