



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: CS-002

Product Name: **7-DIETHYLAMINO-4-HYDROXYMETHYLCOUMARIN**
(7-Diethylamino-4-methanolcoumarin)

Lot Number: 0110276

Chemical Formula: C₁₄H₁₇NO₃

Molecular Weight: 247.29

Melting Point: 142-144°C

Appearance: Greenish brown powder

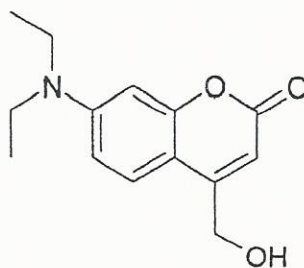
Solubility: Soluble in Chloroform

TLC: Hexane : Ethyl acetate (1:1)

NMR Spectrum: Enclosed (Confirms to the structure)

Storage: Cool dry place

Purity (HPLC): 99.19%





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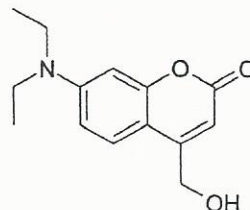
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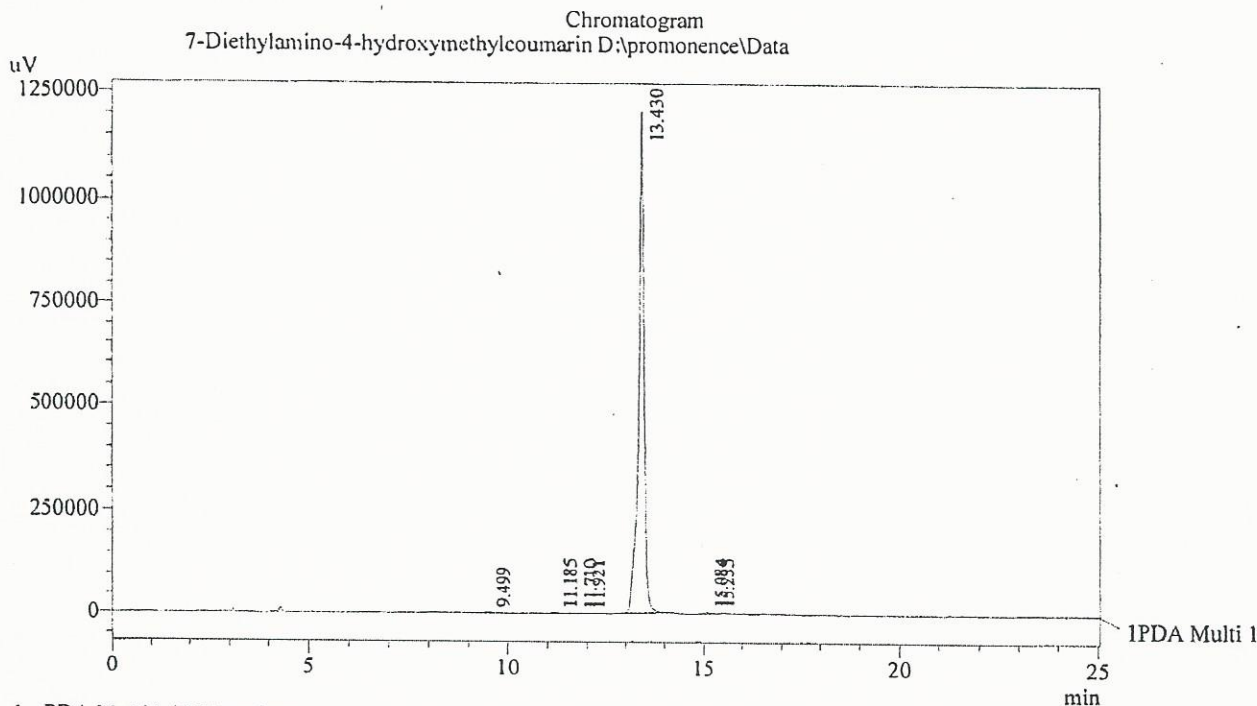
E-mail: chemical@indofinechemical.com

HPLC ANALYSIS

Acquired by : Sanjeev
 Sample Name : 7-Diethylamino-4-hydroxymethylcoumarin
 Sample ID : Lot No:- 0110276
 Injection Volume : 20 uL
 Data Filename : 110513J.lcd
 Method Filename : Linear Gradient.M.lcm
 Column : LUNA C-18(2), (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 : Methanol



Catalog No.: CS-002
 Product Name: 7-Diethylamino-4-hydroxymethyl coumarin
 Lot No.: 0110276



1 PDA Multi 1 / 254nm 4nm

PeakTable

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:9.499	9.499	12253	0.10	0.71
2	RT:11.185	11.185	19254	0.16	0.83
3	RT:11.710	11.710	8820	0.07	0.87
4	RT:11.921	11.921	7920	0.07	0.89
5	RT:13.430	13.430	11861367	99.19	1.00
6	RT:15.084	15.084	31253	0.26	1.12
7	RT:15.235	15.235	17300	0.14	1.13
Total			11958167	100.00	



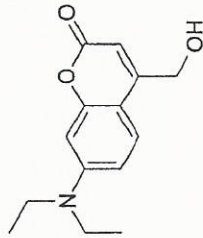
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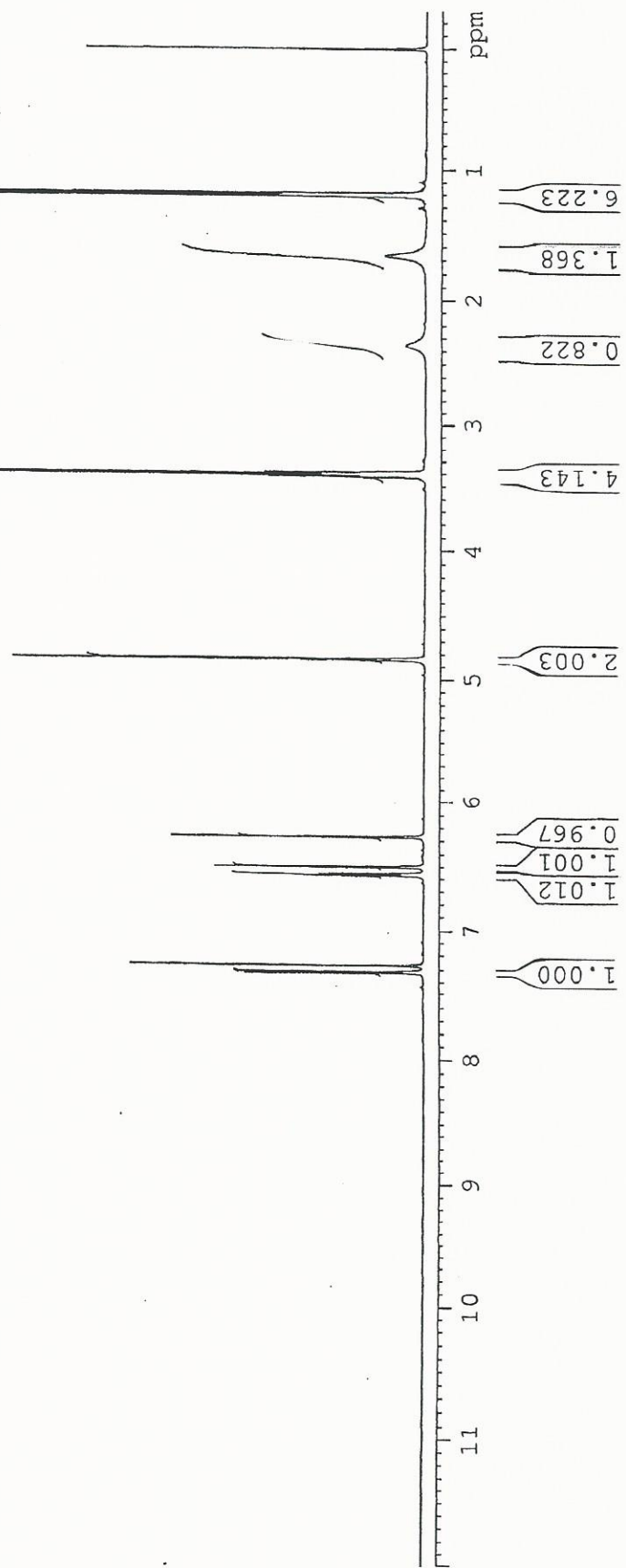
Catalog No.: CS-002
Product Name: 7-Diethylamino-4-hydroxymethyl
coumarin
Lot No.: 0110276

SOLVENT CDCL3
NS 8
DS 0
SWH 9803.922 Hz
FIDRES 0.326819 Hz
AQ 1.5299480 sec
RG 25.4
DW 51.000 usec
DE 6.00 usec
TE 298.2 K
D1 1.5000000 sec
TD0 1

1H IN CDCL3
AVANCE-600



===== CHANNEL f1 =====
NUC1 1H
P1 7.50 usec
PL1 2.60 dB
PL1W 6.62584448 W
SFO1 600.3345228 MHz
SI 32768
SF 600.3300108 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

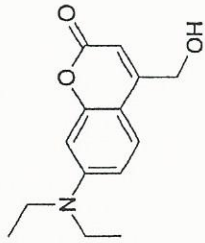




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Catalog No.: CS-002
Product Name: 7-Diethylamino-4-hydroxymethyl
coumarin
0110276



Lot No.:
3.422
3.410
3.399
3.387

4.839

1H IN CDCL3
AVANCE-600

SOLVENT CDCL3
NS 8
DS 0
SWH 9803.922 Hz
FIDRES 0.326819 Hz
AQ 1.5299480 sec
RG 25.4
DW 51.000 usec
DE 6.00 usec
TE 298.2 K
D1 1.50000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 7.50 usec
PL1 2.60 dB
PL1W 6.62584448 W
SFO1 600.3545228 MHz
SI 32768
SF 600.3300108 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

