



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: 17-149

Product Name: **4-METHYL-3-PHENYLCOUMARIN**

CAS Number: [23028-23-1]

Lot Number: 97087

Chemical Formula: C₁₆H₁₂O₂

Molecular Weight: 236.27

Melting Point: 155-158°C

Appearance: White powder

Solubility: Soluble in chloroform

TLC: Hexane : Ethyl acetate (1:1)

NMR Spectrum: Enclosed (Confirms to the structure)

Storage: Cool dry place

Purity (HPLC): 99.21%





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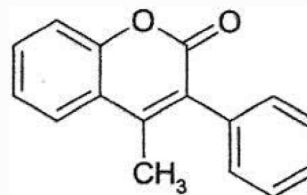
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HPLC ANALYSIS

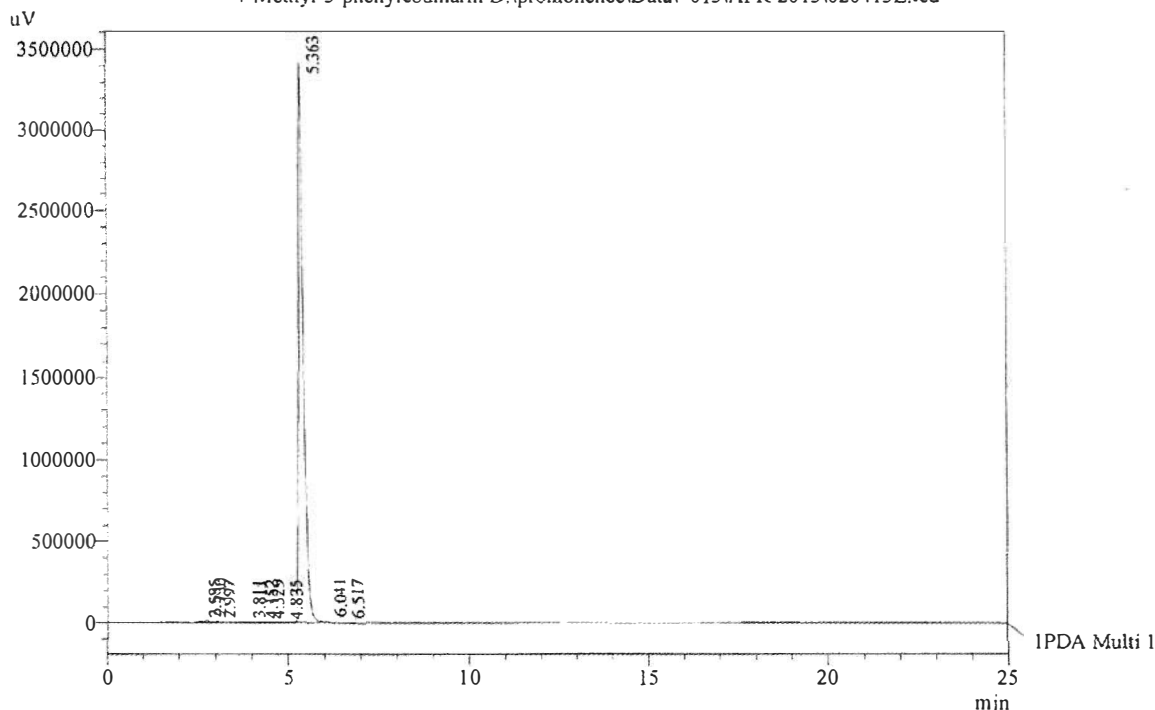
Acquired by : Sanjeev
 Sample Name : 4-Methyl-3-phenylcoumarin
 Sample ID : Lot No:- 97087
 Injection Volume : 20 uL
 Data Filename : 020413E.lcd
 Method Filename : Linear Isocratic.M.lcm



Column : LUNA C-18(2), (250mm x4.6mm 5.0μ)
 Flow : 1.000 mL/min.
 Mobile Phase : A(20% of 0.05% TFA in water) B(80% of Acetonitrile)

Catalog No.: 17-149
 Product name: 4-Methyl-3-phenylcoumarin
 Lot No.: 97087

Chromatogram
 4-Methyl-3-phenylcoumarin D:\promonence\Data\ 013\APR-2013\020413E.lcd



1 PDA Multi 1 / 230nm 4nm

PeakTable

PDA Ch1 230nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:2.585	2.585	51149	0.17	0.48
2	RT:2.730	2.730	115515	0.37	0.51
3	RT:2.997	2.997	31510	0.10	0.56
4	RT:3.811	3.811	2344	0.01	0.71
5	RT:4.152	4.152	2155	0.01	0.77
6	RT:4.329	4.329	3129	0.01	0.81
7	RT:4.835	4.835	3626	0.01	0.90
8	4-Methyl-3-phenylcoumarin	5.363	30705874	99.21	1.00
9	RT:6.041	6.041	29190	0.09	1.13
10	RT:6.517	6.517	4819	0.02	1.22
Total			30949311	100.00	



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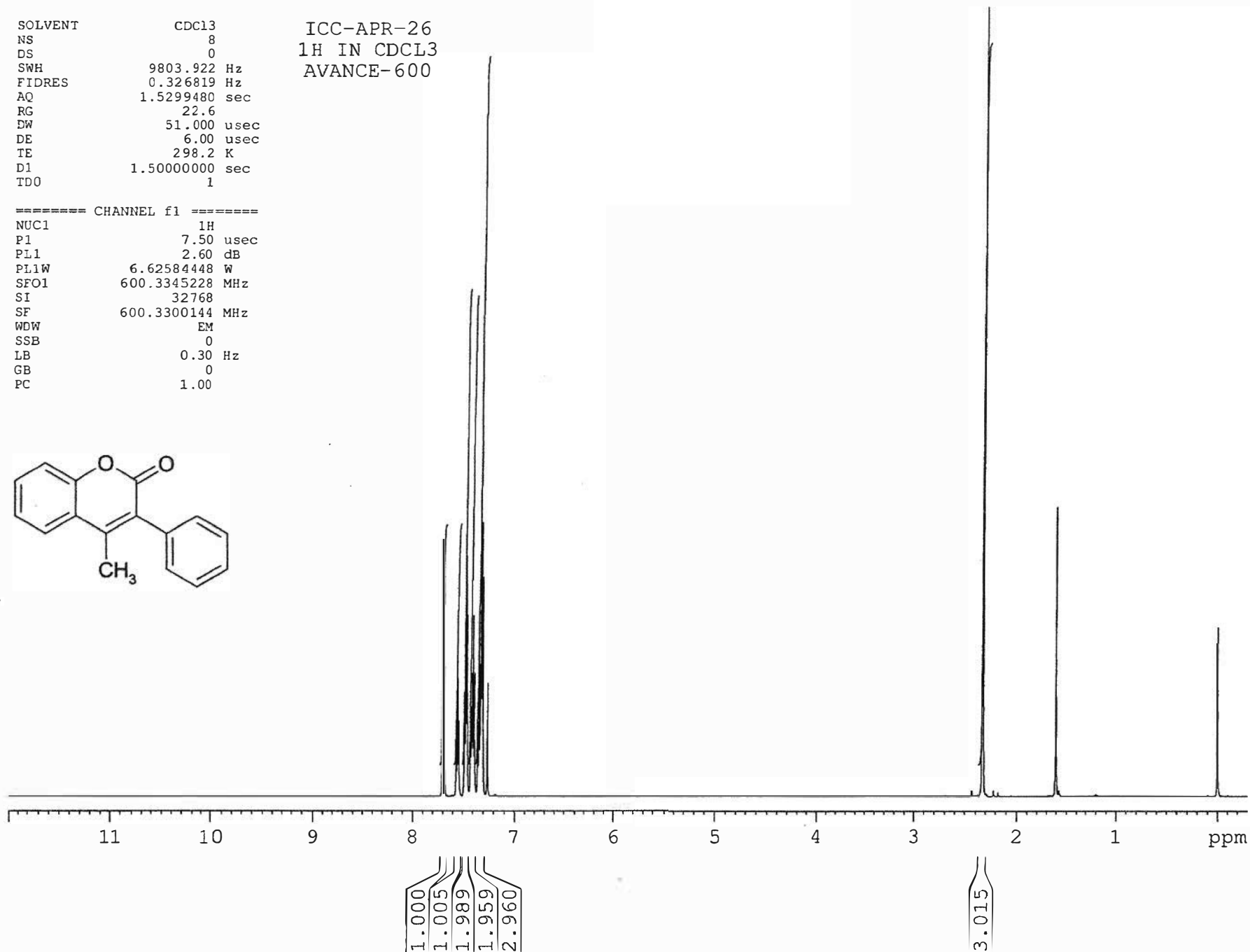
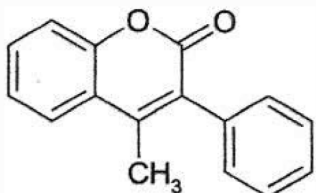
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Catalog No.: 17-149
Product name: 4-Methyl-3-phenylcoumarin
Lot No.: 97087

SOLVENT CDC13
NS 8
DS 0
SWH 9803.922 Hz
FIDRES 0.326819 Hz
AQ 1.5299480 sec
RG 22.6
DW 51.000 usec
DE 6.00 usec
TE 298.2 K
D1 1.50000000 sec
TD0 1

ICC-APR-26
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 600.3300144 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





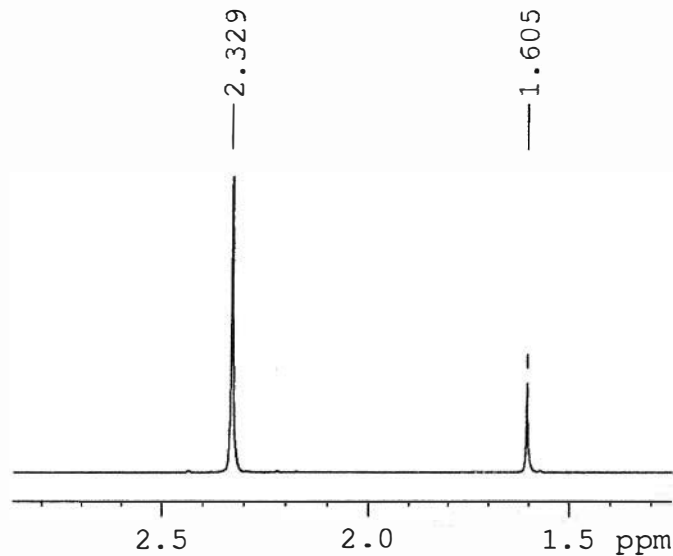
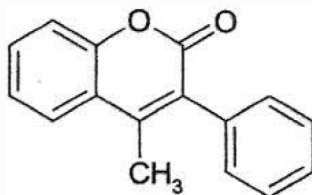
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Catalog No.: 17-149
Product name: 4-Methyl-3-phenylcoumarin
Lot No.: 97087

SOLVENT	CDC13
NS	8
DS	0
SWH	9803.922 Hz
FIDRES	0.326819 Hz
AQ	1.5299480 sec
RG	22.6
DW	51.000 usec
DE	6.00 usec
TE	298.2 K
D1	1.50000000 sec
ID0	1

ICC-APR-26
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       600.3300144 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.00
  
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—7.699
—7.686

—7.564
—7.552
—7.540
—7.538

—7.479
—7.467
—7.455

—7.419
—7.407
—7.394
—7.380

—7.349
—7.337
—7.322
—7.320
—7.308

