



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: 19-049

Product Name: **6-CHLORO-4(4'-CHLOROPHENYL)-7-METHYL-3-PHENYLCOUMARIN**

Lot Number: 98090

Chemical Formula: $C_{22}H_{14}Cl_2O_2$

Molecular Weight: 381.26

Melting Point: 211-214°C

Appearance: White powder

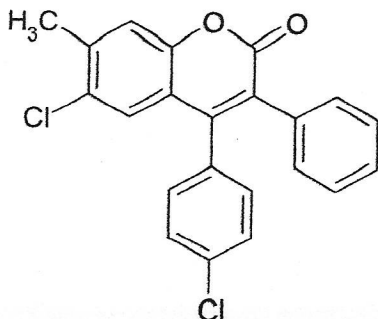
Solubility: Soluble in DMSO

TLC: Hexane:Ethyl acetate (8:2)

NMR Spectrum: Enclosed (Confirms to the structure)

Storage: Cool dry place

Purity (HPLC): 99.44%





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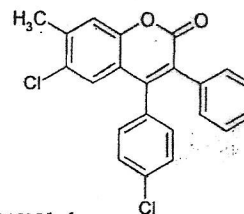
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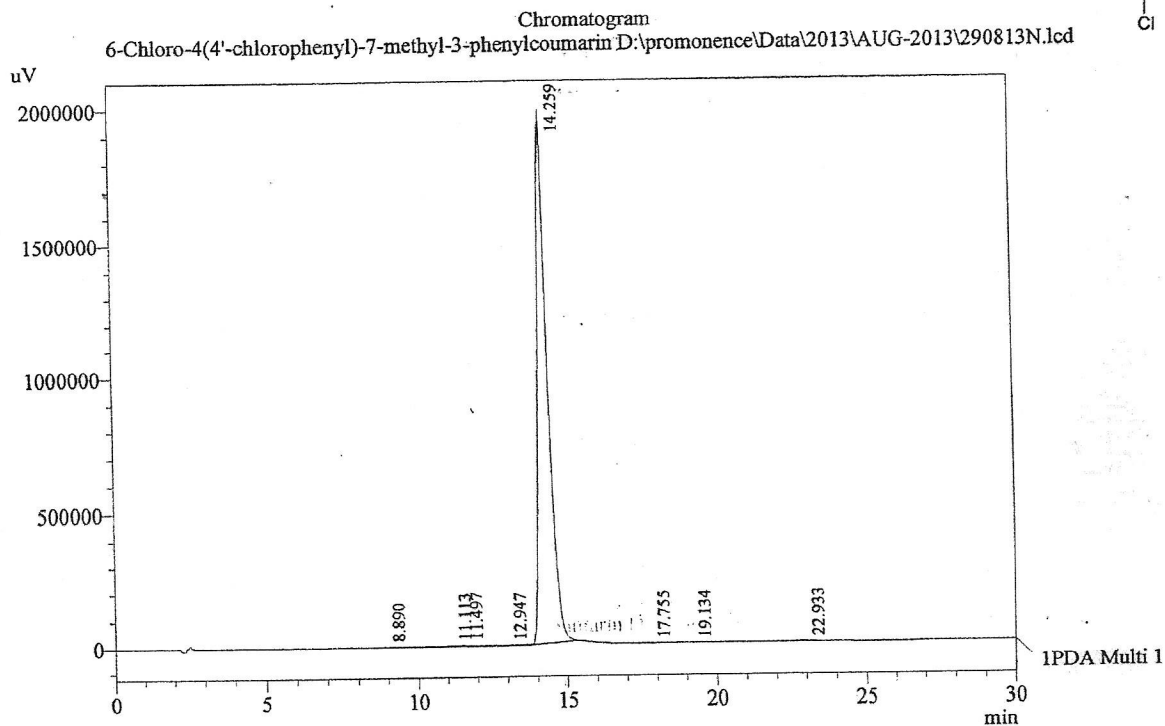
HPLC ANALYSIS

Acquired by : Sanjeev
 Sample Name : 6-Chloro-4(4'-chlorophenyl)-7-methyl-3-phenylcoumarin
 Sample ID : Lot No: 98090
 Injection Volume : 20 uL
 Data Filename : 290813N.lcd
 Method Filename : Linear Isocratic.M.lcm

Catalog No.: 19-049
 Product Name: 6-Chloro-4(4'-chlorophenyl)-7-methyl-3-phenylcoumarin
 Lot No.: 98090



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)
 Diluent : Acetonitrile



1 PDA Multi 1 / 220nm 4nm

PeakTable

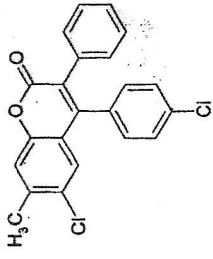
PDA Ch1 220nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:8.890	8.890	9191	0.02	0.62
2	RT:11.113	11.113	13115	0.03	0.78
3	RT:11.497	11.497	77859	0.17	0.81
4	RT:12.947	12.947	6010	0.01	0.91
5	RT:14.259	14.259	46548464	99.44	1.00
6	RT:17.755	17.755	5106	0.01	1.25
7	RT:19.134	19.134	7243	0.02	1.34
8	RT:22.933	22.933	144275	0.31	1.61
Total			46811263	100.00	



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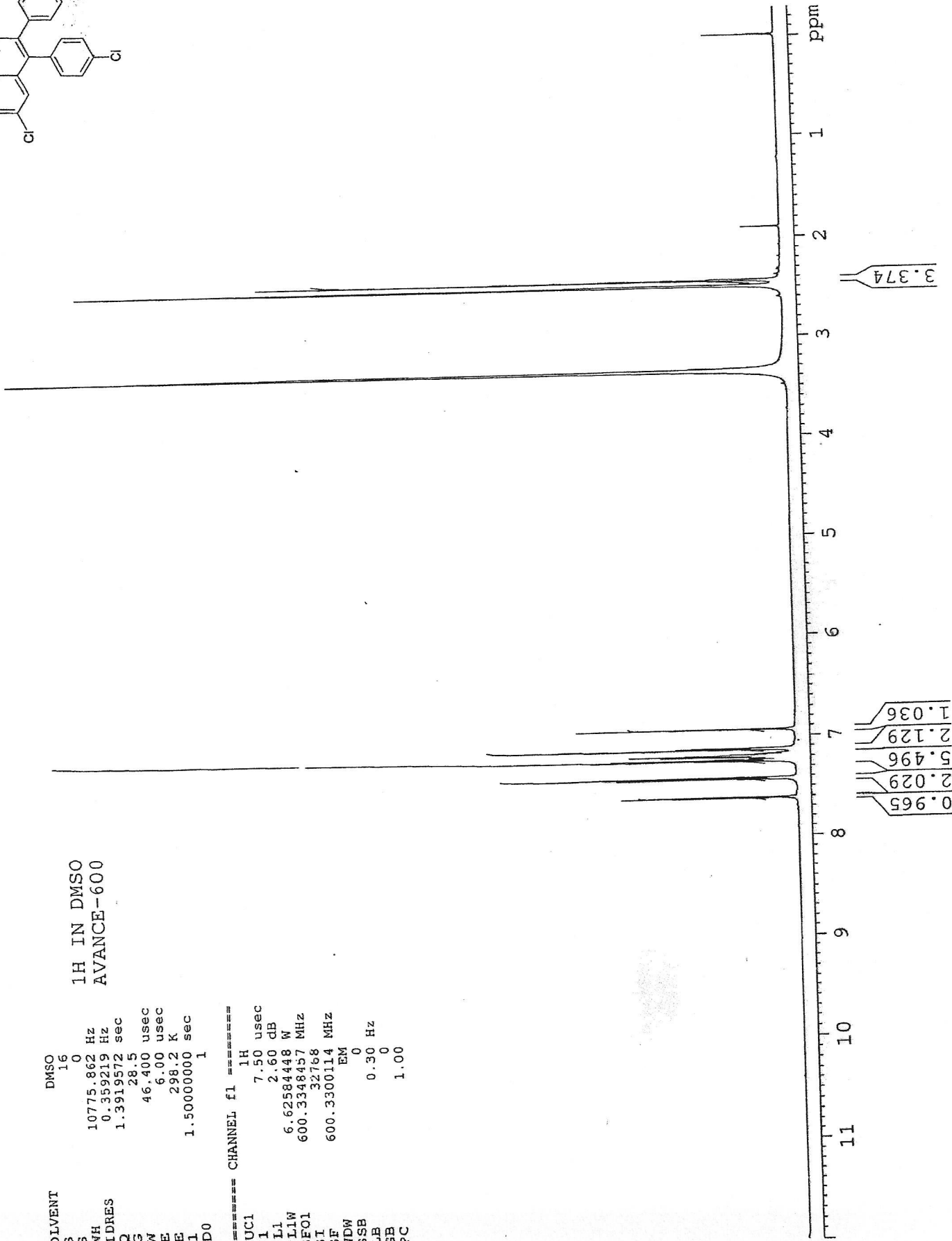
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 Product Name: 6-Chloro-4(4'-chlorophenyl)-7-methyl-3-phenylcoumarin
 Lot No.: 98090



SOLVENT DMSO
 NS 16
 DS 0
 SMH 10775.862 Hz
 FIDRES 0.359219 Hz
 AQ 1.3919572 sec
 RG 28.5
 DW 46.400 usec
 DE 6.00 usec
 TE 298.2 K
 D1 1.5000000 sec
 TD0 1

1H IN DMSO
 AVANCE-600

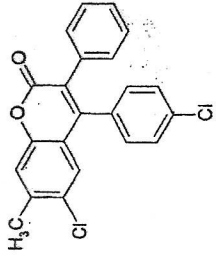
==== CHANNEL f1 =====
 NUC1 1H
 P1 7.50 usec
 PL 2.60 dB
 PLL 6.62584448 W
 SFO1 600.3348457 MHz
 SI 32768
 SF 600.3300114 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00





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