



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: 19-390

Product Name: **3(4'-BROMOPHENYL)-6-CHLORO-4,5,7-TRIMETHYLCOUMARIN**

Lot Number: 0102017

Chemical Formula: C₁₈H₁₄BrClO₂

Molecular Weight: 377.67

Melting Point: 166-168°C

Appearance: Creamy yellow powder

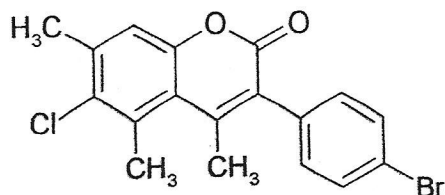
Solubility: Soluble in Chloroform

TLC: Hexane:Ethyl acetate (9:1)

NMR Spectrum: Enclosed (Confirms to the structure)

Storage: Cool dry place

Purity (HPLC): 99.60%





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

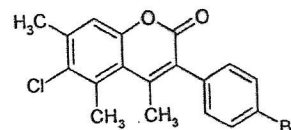
website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

Acquired by : Sanjeev
Sample Name : 3(4'-Bromophenyl)-6-chloro-4,5,7-trimethylcoumarin
Sample ID : Lot No:0102017
Injection Volume : 20 uL
Data Filename : 290813F.lcd
Method Filename : Linear Isocratic.M.lcm

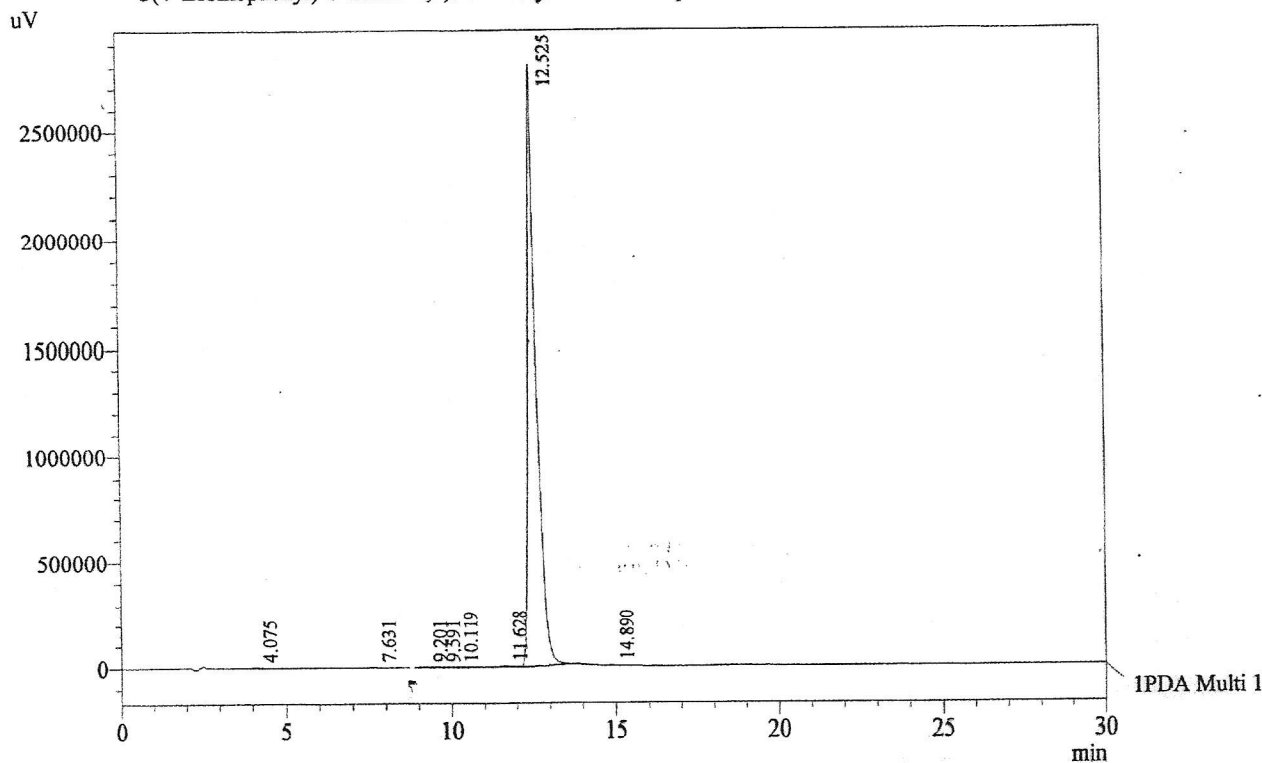
Catalog No.: 19-390
Product Name: 3(4'-Bromophenyl)-6-chloro-4,5,7-trimethylcoumarin
Lot No.: 0102017



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

Chromatogram

3(4'-Bromophenyl)-6-chloro-4,5,7-trimethylcoumarin D:\promonence\Data\2013\AUG-2013\290813F.lcd



1 PDA Multi 1 / 220nm 4nm

PeakTable

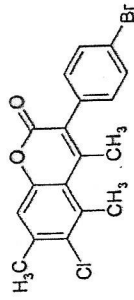
PDA Ch1 220nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:4.075	4.075	36490	0.07	0.33
2	RT:7.631	7.631	17747	0.04	0.61
3	RT:9.201	9.201	10336	0.02	0.73
4	RT:9.591	9.591	10940	0.02	0.77
5	RT:10.119	10.119	4213	0.01	0.81
6	RT:11.628	11.628	86424	0.17	0.93
7	RT:12.525	12.525	49845549	99.60	1.00
8	RT:14.890	14.890	33767	0.07	1.19
Total			50045465	100.00	



INDOFINE Chemical Company, Inc.
 121 STRYKER LANE
 BLDG. 30, SUITE 1
 HILLSBOROUGH, NJ 08844

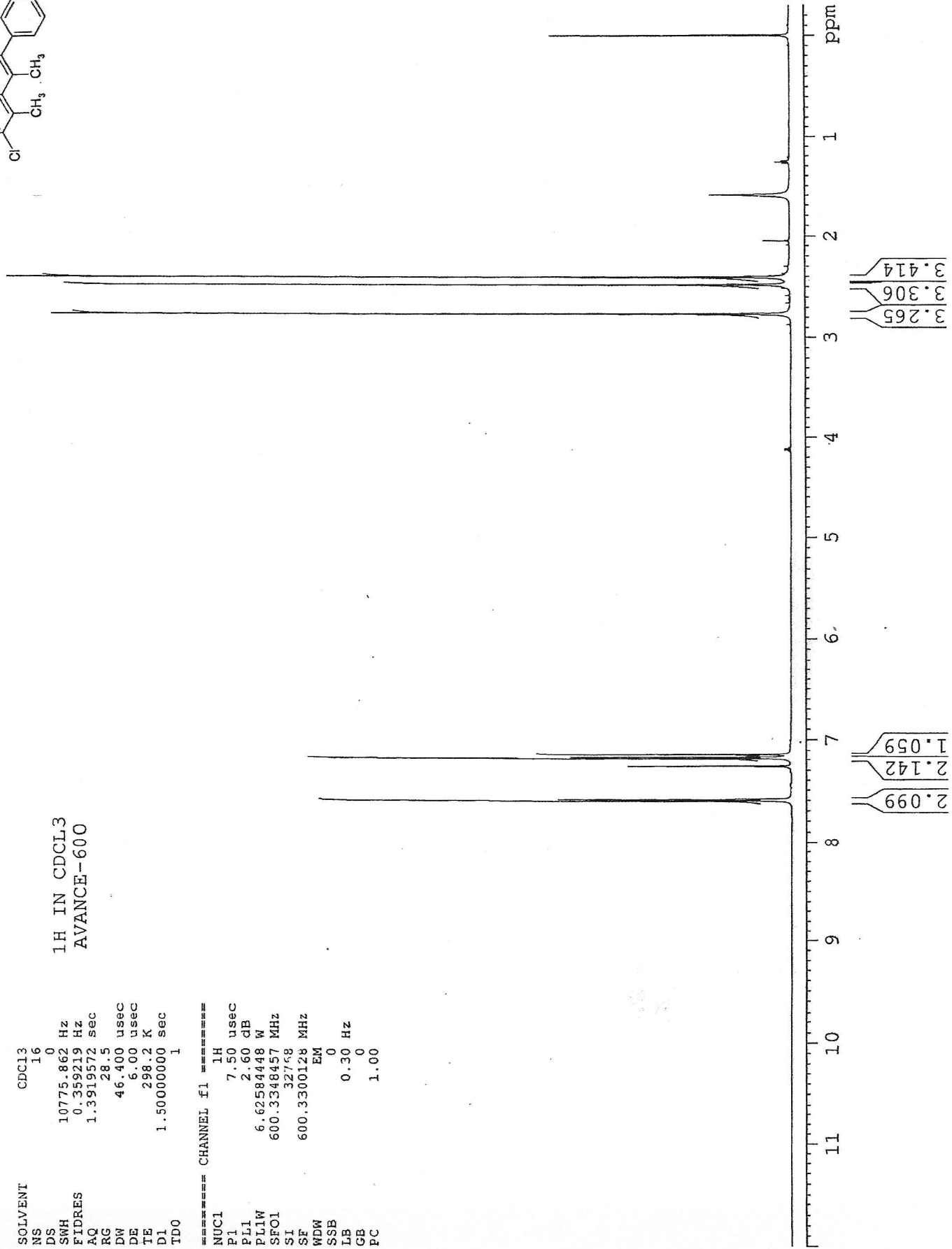
Catalog No.: 19-390
 Product Name: 3-(4'-Bromophenyl)-6-chloro-4,5,7-trimethylcoumarin
 Lot No.: 0102017



SOLVENT CDCL3
 NS 16
 DS 0
 SWH 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 1.50000000 sec
 TD0 1

1H IN CDCL3
 AVANCE-600

===== CHANNEL f1 =====
 NUC1 1H
 P1 7.50 usec
 PL1 2.60 dB
 PLLW 6.62584448 W
 SFO1 600.3348457 MHz
 SI 32768
 SF 600.3300128 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



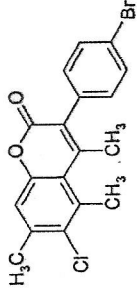


INDOFINE Chemical Company, Inc.
 121 STRYKER LANE
 BLDG. 30, SUITE 1
 HILLSBOROUGH, NJ 08844

Catalog No.: 19-390

Product Name: 3-(4'-Bromophenyl)-6-chloro-4,5,7-trimethylcoumarin

Lot No.: 0102017



SOLVENT CDCL3
 NS 16
 DS 0
 SWH 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 1.50000000 sec
 ID0 1

1H IN CDCL3
 AVANCE-600

===== CHANNEL f1 =====
 NUC1 1H
 P1 7.50 usec
 PL1 2.60 dB
 PL1W 6.62584448 W
 SF01 600.3348457 MHz
 SI 32768
 SF 600.3300128 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

