

**ICC** **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](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

**CERTIFICATE OF ANALYSIS**

Cat No.: 19-297

Product: 7-ALLYLOXY-4-METHYLCOUMARIN

CAS Number: [3993-57-5]

Lot Number: 0007149

Molecular Formula: C<sub>13</sub>H<sub>12</sub>O<sub>3</sub>

M.W.: 216.23

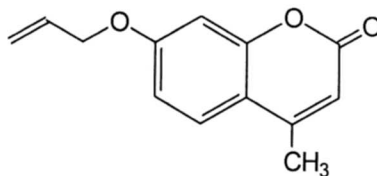
Melting Point: 104-105°C

Appearance: White fluffy powder

Solubility: Soluble in Chloroform

T.L.C.: Hexane:Ethyl acetate (8:2)

Purity(HPLC): 99.90%





# 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](http://www.indofinechemical.com)

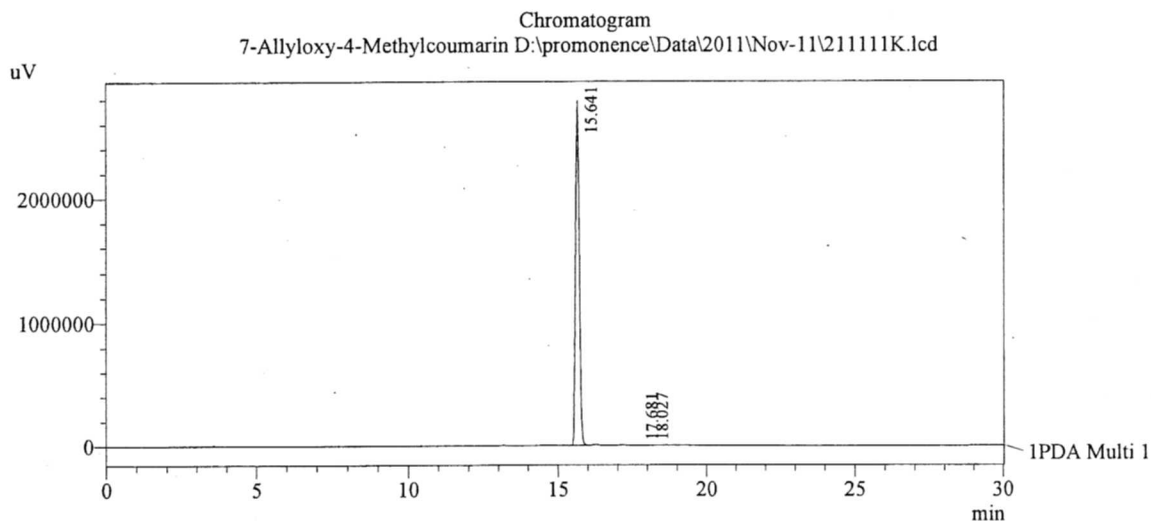
e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## HPLC ANALYSIS

Acquired by : Admin  
Sample Name : 7-Allyloxy-4-Methylcoumarin  
Sample ID : Lot No:- 0007149  
Injection Volume : 20 uL  
Data Filename : 211111K.lcd  
Method Filename : Linear Gradient.M.lcm

Cat. No.: 19-297  
Product name: 7-Allyloxy-4-methylcoumarin  
Lot No.: 0007149

Date Acquired : 11/21/2011 4:39:45 PM  
Data Processed : 11/21/2011 5:13:13 PM  
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  
25.0 90 10  
30.0 90 10



1 PDA Multi 1 / 270nm 4nm

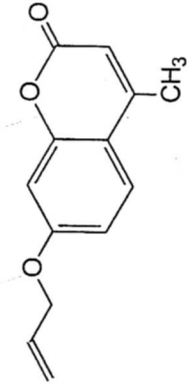
PeakTable

PDA Ch1 270nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:15.641	15.641	24070472	99.90	1.00
2	RT:17.681	17.681	8054	0.03	1.13
3	RT:18.027	18.027	16592	0.07	1.15
Total			24095118	100.00	



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

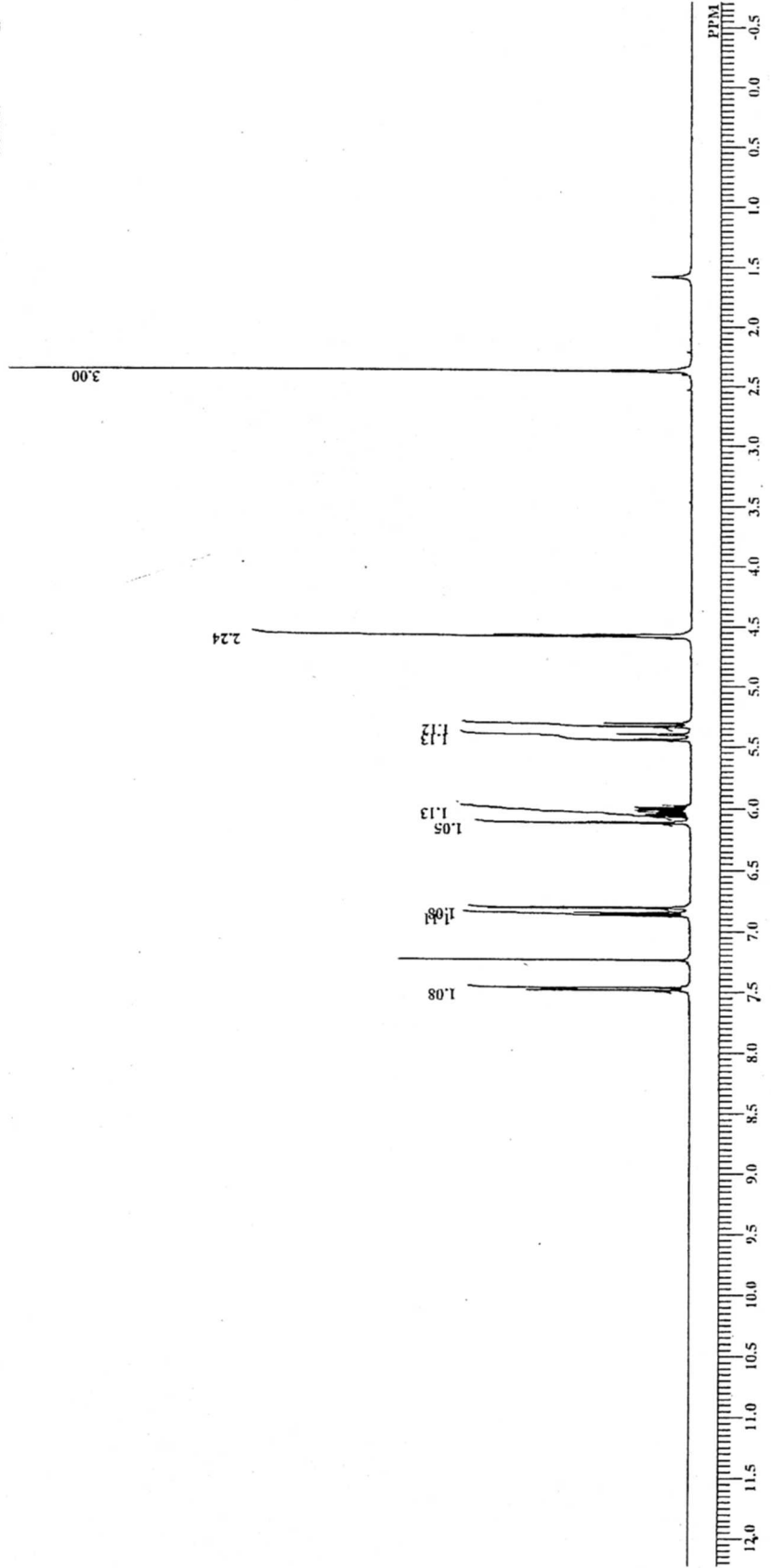


IFC-4.als  
IFC-4 1H NMR CDC13  
Tue Nov 22 20:17:30 2011

DPH1E	NON
COMNT	399.65 MHz
DATIM	124.00 KHz
CHNUC	105000.00 Hz
EXMOD	65536
OBFRQ	7992.01 Hz
OBSET	1g
OBFIN	8.2002 sec
POINT	3.0000 sec
FREQU	5.60 usec
SCANS	16
ACQTM	21.9 c
PD	3.0000 sec
PW1	5.60 usec
IRNUC	1H
CTEMP	CDC13
SLVNT	7.24 ppm
EXREF	0.30 Hz
BF	19
RGAIN	

IFC-4 1H NMR CDC13

Cat. No.: 19-297  
Product name: 7-Allyloxy-4-methylcoumarin  
Lot No.: 0007149





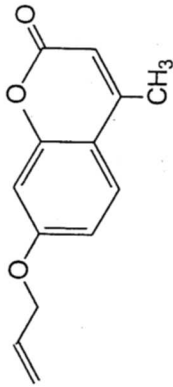
**INDOFINE Chemical Company, Inc.**  
121 STRYKER LANE  
BLDG. 30, SUITE 1  
HILLSBOROUGH, NJ 08844

IFC-4 IH NMR CDCB

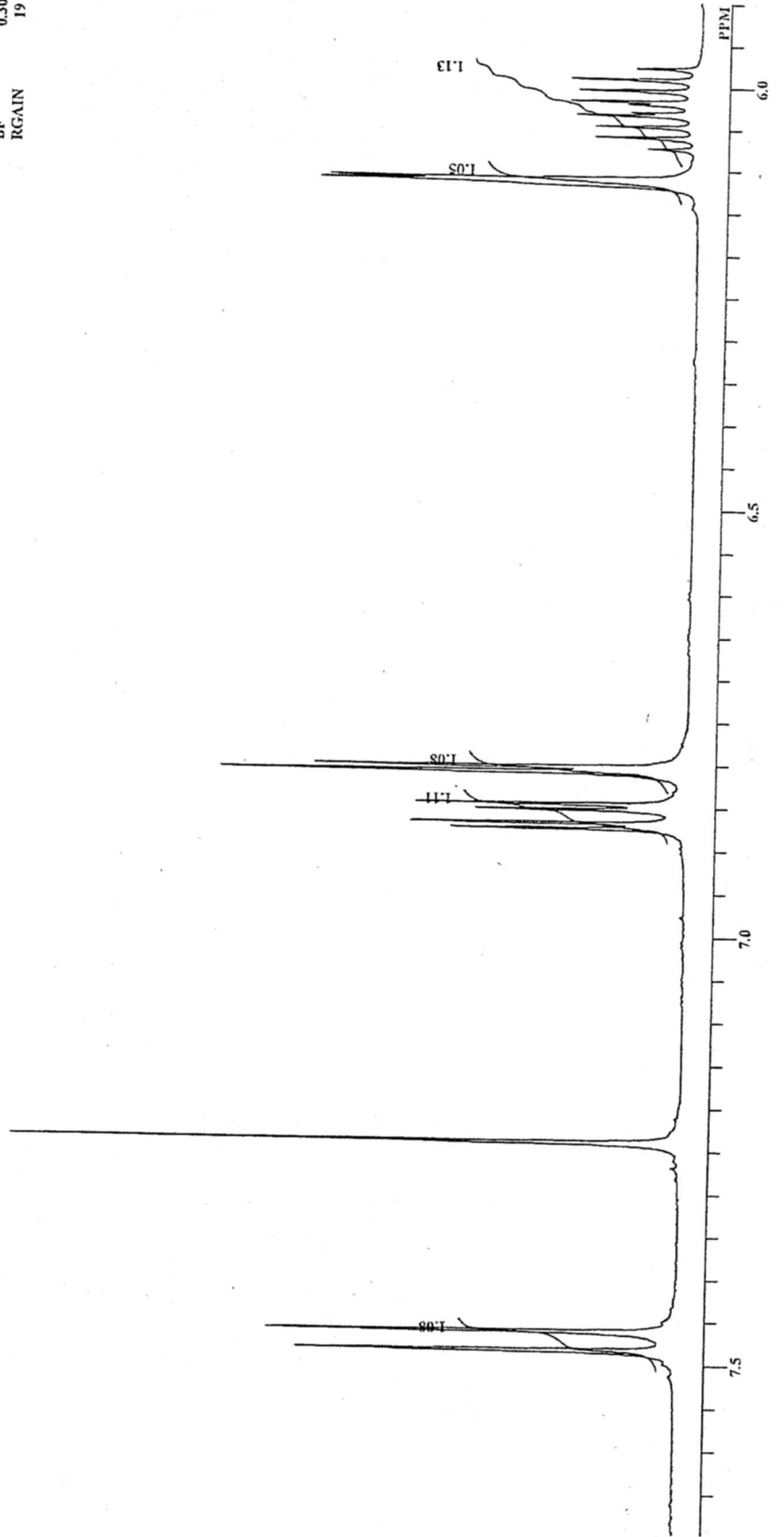
Cat. No.: 19-297

Product name: 7-Allyloxy-4-methylcoumarin

Lot No.: 0007149

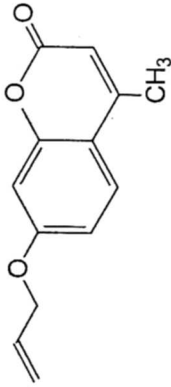


DEFILE IFC-4.als  
CONMT IFC-4 IH NMR CDCB  
DATIM Tue Nov 22 20:17:30 2011  
OENUC IH  
EXMOD NON  
OBFREQ 399.65 MHz  
OBSET 124.00 KHz  
OBFIN 10500.00 Hz  
FOINT 65536  
FREQU 7992.01 Hz  
SCANS 16  
ACQTM 8.2002 sec  
PD 3.0000 sec  
PW1 5.60 usec  
IRNUC IH 21.9 c  
CTEMP CDCL3  
SLVNT CDCL3  
EXREF 7.24 ppm  
BF 0.30 Hz  
RGAIN 19





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



IFC-4 IH NMR CDC13

Cat. No.: 19-297  
Product name: 7-Allyloxy-4-methylcoumarin  
Lot No.: 0007149

DFILE IFC-4.nls  
COMNT IFC-4 IH NMR CDC13  
DATIM Tue Nov 22 20:17:30 2011  
OBNUC IH  
EXMOD NON  
OBFRQ 399.65 MHz  
OBSET 124.00 KHz  
OBFIN 10500.00 Hz  
POINT 65536  
FREQU 7992.01 Hz  
SCANS 16  
ACQTM 8.2002 sec  
PD 3.0000 sec  
PW1 5.60 uscc  
IRNUC IH 21.9 c  
CTEMP CDCL3  
SLVNT 7.24 ppm  
EXREF 0.30 Hz  
BF 19  
RGAIN

