



# 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

Catalog Number: 17-108

Product Name: **6,8-DICHLORO-4-HYDROXYCOUMARIN**

Lot Number: 0005110

Chemical Formula: C<sub>9</sub>H<sub>4</sub>Cl<sub>2</sub>O<sub>3</sub>

Molecular Weight: 231.04

Melting Point: 285-287°C

Appearance: Cream powder

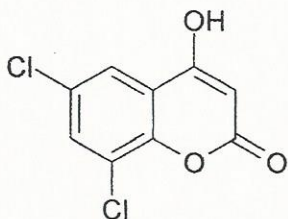
TLC: Chloroform:Methanol (1:1)

Solubility: Soluble in DMSO

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.54%





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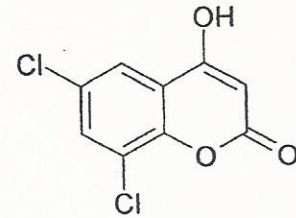
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## HPLC ANALYSIS

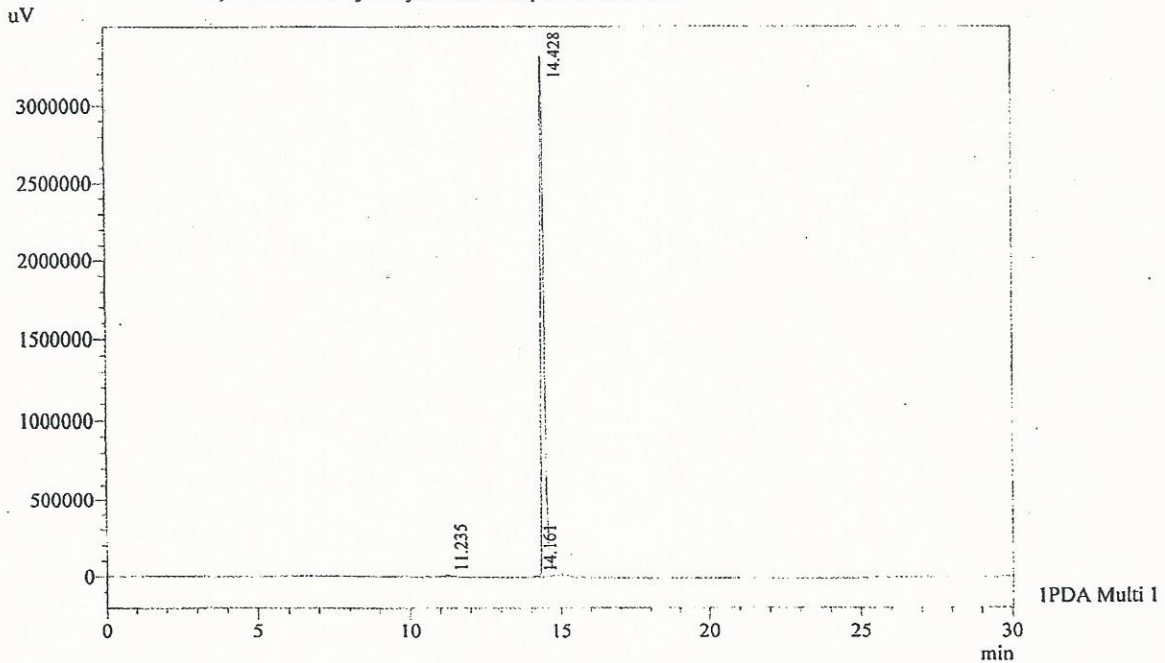
Acquired by : Admin  
 Sample Name : 6,8-Dichloro-4-hydroxycoumarin  
 Sample ID : Lot no:0005110  
 Injection Volume : 20 uL  
 Data Filename : 110615L.lcd  
 Method Filename : Linear Gradient.M.lcm

Catalog No.: 17-108  
 Product Name: 6,8-Dichloro-4-hydroxycoumarin  
 Lot No.: 0005110



Column : LUNA C-18, (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 : Acetonitrile

Chromatogram  
 6,8-Dichloro-4-hydroxycoumarin D:\promonence\Data



1 PDA Multi 1 / 230nm 4nm

PeakTable

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:11.235	11.235	78445	0.30	0.78
2	RT:14.161	14.161	41297	0.16	0.98
3	6,8-DiCl-4-OH coumarin	14.428	25669033	99.54	1.00
Total			25788775	100.00	



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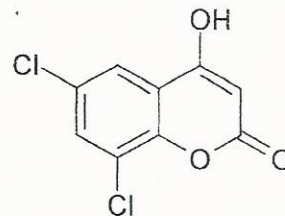
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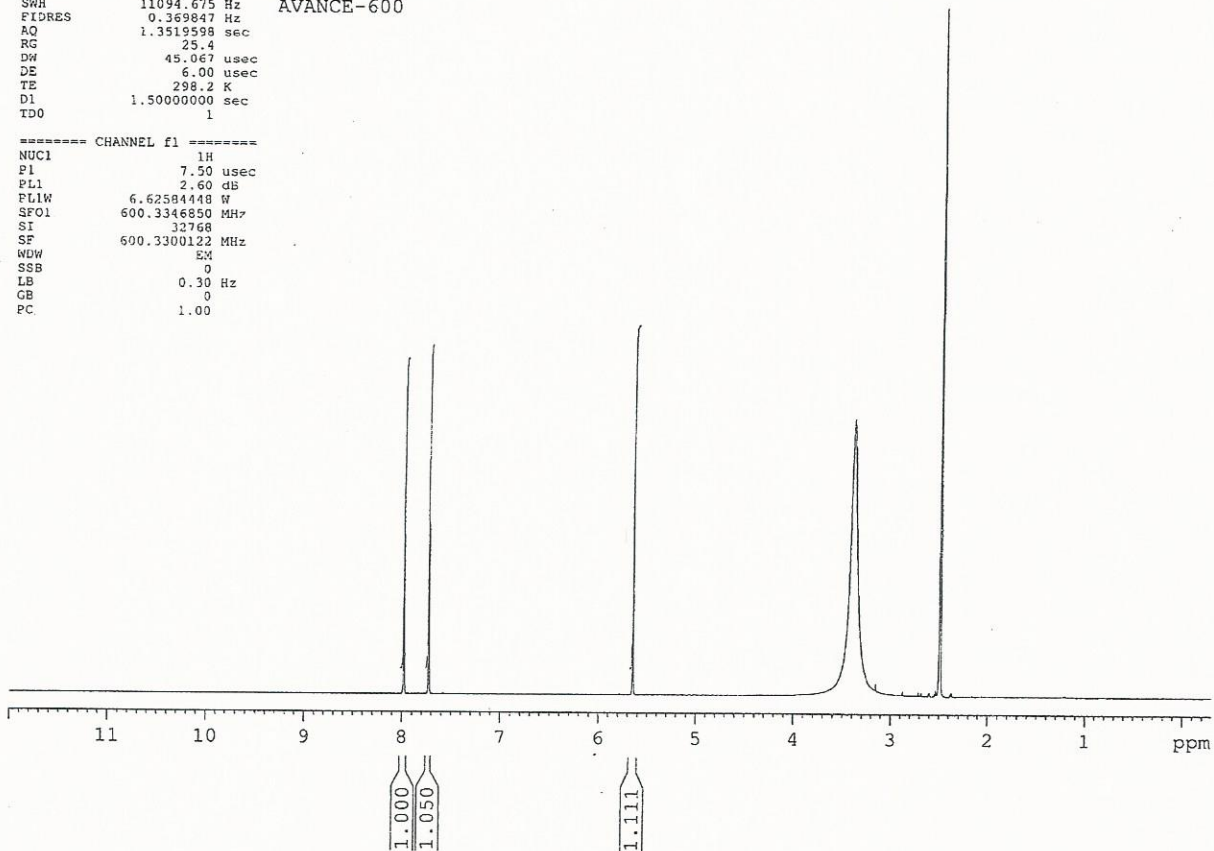
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Catalog No.: 17-108  
Product Name: 6,8-Dichloro-4-hydroxycoumarin  
Lot No.: 0005110



SOLVENT DMSO  
NS 8  
DS 0 1H IN DMSO  
SWH 11094.675 Hz AVANCE-600  
FIDRES 0.369847 Hz  
AQ 1.3519598 sec  
RG 25.4  
DW 45.067 usec  
DE 6.00 usec  
TE 298.2 K  
D1 1.50000000 sec  
TDO 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 7.50 usec  
PL1 2.60 dB  
PL1W 6.62584448 W  
SF01 600.3346850 MHz  
SI 32768  
SF 600.3300122 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00





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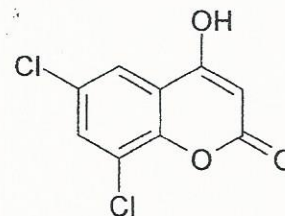
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TE 298.2 K  
D1 1.5000000 sec  
TDO 1

1H IN DMSO  
AVANCE-600

----- CHANNEL f1 -----  
NUC1 1H  
P1 7.50 usec  
PL1 2.60 dB  
PL1W 6.62584448 W  
SFOL 600.3346830 MHz  
SI 32768  
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