



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: 15-005

Product name: **4-HYDROXY-3-NITROCOUMARIN**

CAS Number: [20261-31-8]

Lot Number: 0107080

Chemical Formula: C₉H₅O₅N

Molecular Weight: 207.14

Melting Point: 172-174°C (dec)

Appearance: Dark cream powder

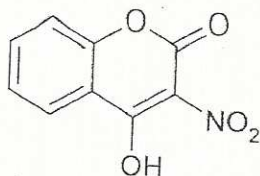
Solubility: Soluble in chloroform

TLC: Chloroform:Methanol (7:3)

NMR Spectrum: Enclosed (confirms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.74%





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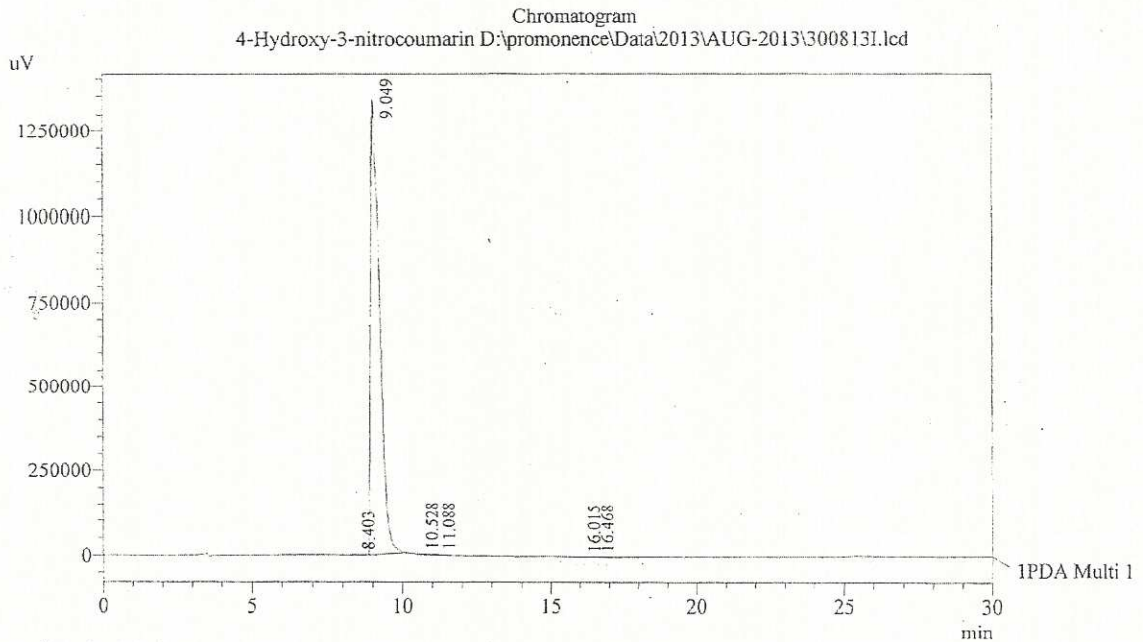
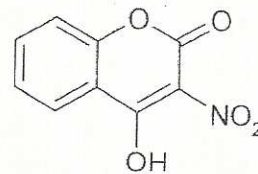
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HPLC ANALYSIS

Acquired by : Sanjeev
 Sample Name : 4-Hydroxy-3-nitrocoumarin
 Sample ID : Lot No: 0107080
 Injection Volume : 20 uL
 Data Filename : 3008131.lcd
 Method Filename : Linear Gradient.M.lcm

Catalog No.: 15-005
 Product Name: 4-Hydroxy-3-nitrocoumarin
 Lot No.: 0107080

Column : LUNA C-18(2), (250mm x4.6mm 5.0µ)
 Flow : 1.000 mL/min.
 Mobile Phase : A(0.1% OPA 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



1 IPDA Multi 1 / 240nm 4nm

PeakTable

PDA Ch1 240nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:8.403	8.403	9051	0.03	0.93
2	4-OH-3-nitrocoumarin	9.049	28560886	99.74	1.00
3	RT:10.528	10.528	2092	0.01	1.16
4	RT:11.088	11.088	32254	0.11	1.23
5	RT:16.015	16.015	4307	0.02	1.77
6	RT:16.468	16.468	27110	0.09	1.82
Total			28635699	100.00	



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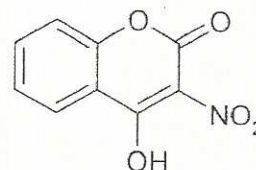
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Catalog No.: 15-005

Product Name: 4-Hydroxy-3-nitrocoumarin

Lot No.: 0107080



SOLVENT CDCL3
NS 16
DS 0
SWH 10775.862 Hz
FIDRES 0.359219 Hz
AC 1.3919572 sec
RG 28.5
DW 46.400 usec
DE 6.00 usec
TE 298.2 K
D1 1.5000000 sec
TD0 1

ICC-AUG-11A
1H IN CDCL3
AVANCE-600

----- CHANNEL f1 -----
NUC1 1H
P1 7.50 usec
PL1 2.60 dB
PL1W 6.62584448 W
SFO1 600.3348457 MHz
SI 32768
SF 600.3300092 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

