



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

Cat No.: B-003

Product: **7,8-BENZOFLAVONE**
(α -Naphthoflavone)

Cas Number: [604-59-1]

Lot Number: 1212267

Chemical Formula: $C_{19}H_{12}O_2$

Molecular Weight: 272.3

Melting Point: 156-157°C

Appearance: White powder

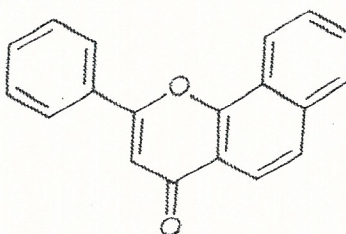
Solubility: Soluble in chloroform

TLC: Hexane:Ethyl acetate (7:3)

NMR Spectrum: Enclosed

Storage: Store in cool dry place

Purity (HPLC): 99.78%





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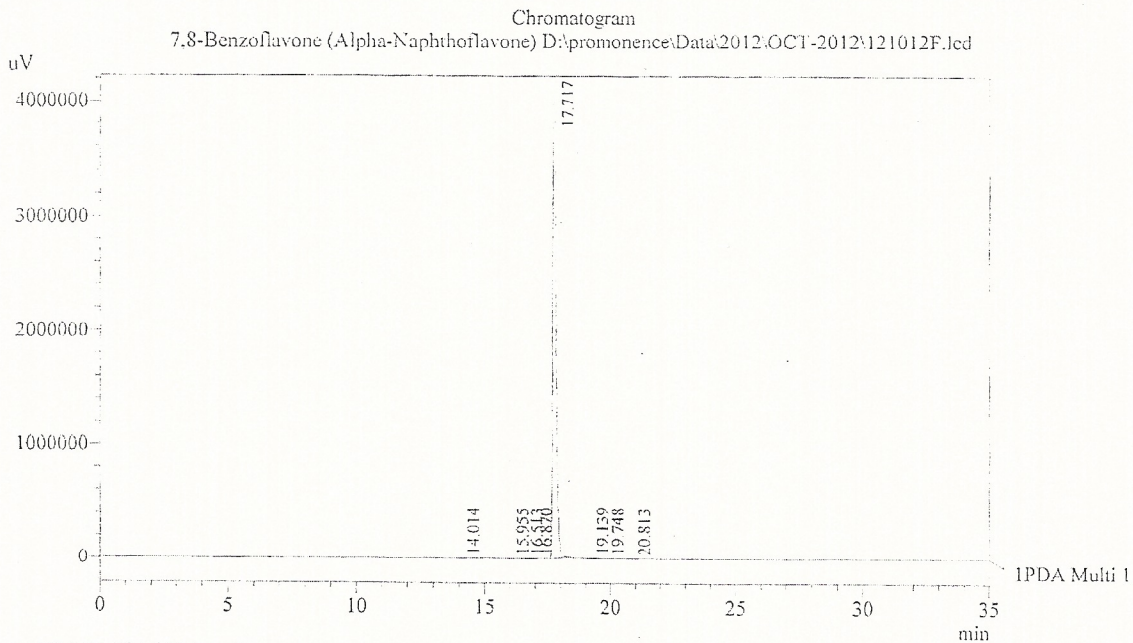
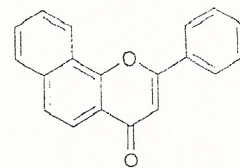
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HPLC ANALYSIS

Acquired by : Sanjeev
 Sample Name : 7,8-Benzoflavone (Alpha-Naphthoflavone)
 Sample ID : 1.3Kg Lot (Herborganics)
 Injection Volume : 20 uL
 Data Filename : 121012F.Icd
 Method Filename : Linear Gradient.M.lcm

Catalog no.: B-003
 Product name: 7,8-Benzoflavone (α -Naphthoflavone)
 Lot No.: 1212267

Column : LUNA C-18(2), (250:mm x4.6mm 5.0 μ)
 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
 35.0 90 10



1 PDA Multi 1 / 254nm 4nm

PeakTable

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:14.014	14.014	11902	0.03	0.79
2	RT:15.955	15.955	6185	0.02	0.90
3	RT:16.513	16.513	11428	0.03	0.93
4	RT:16.870	16.870	6292	0.02	0.95
5	7,8-Benzoflavone	17.717	38887962	99.79	1.00
6	RT:19.139	19.139	25746	0.07	1.08
7	RT:19.748	19.748	5967	0.02	1.11
8	RT:20.813	20.813	15524	0.04	1.17
Total			38971006	100.00	



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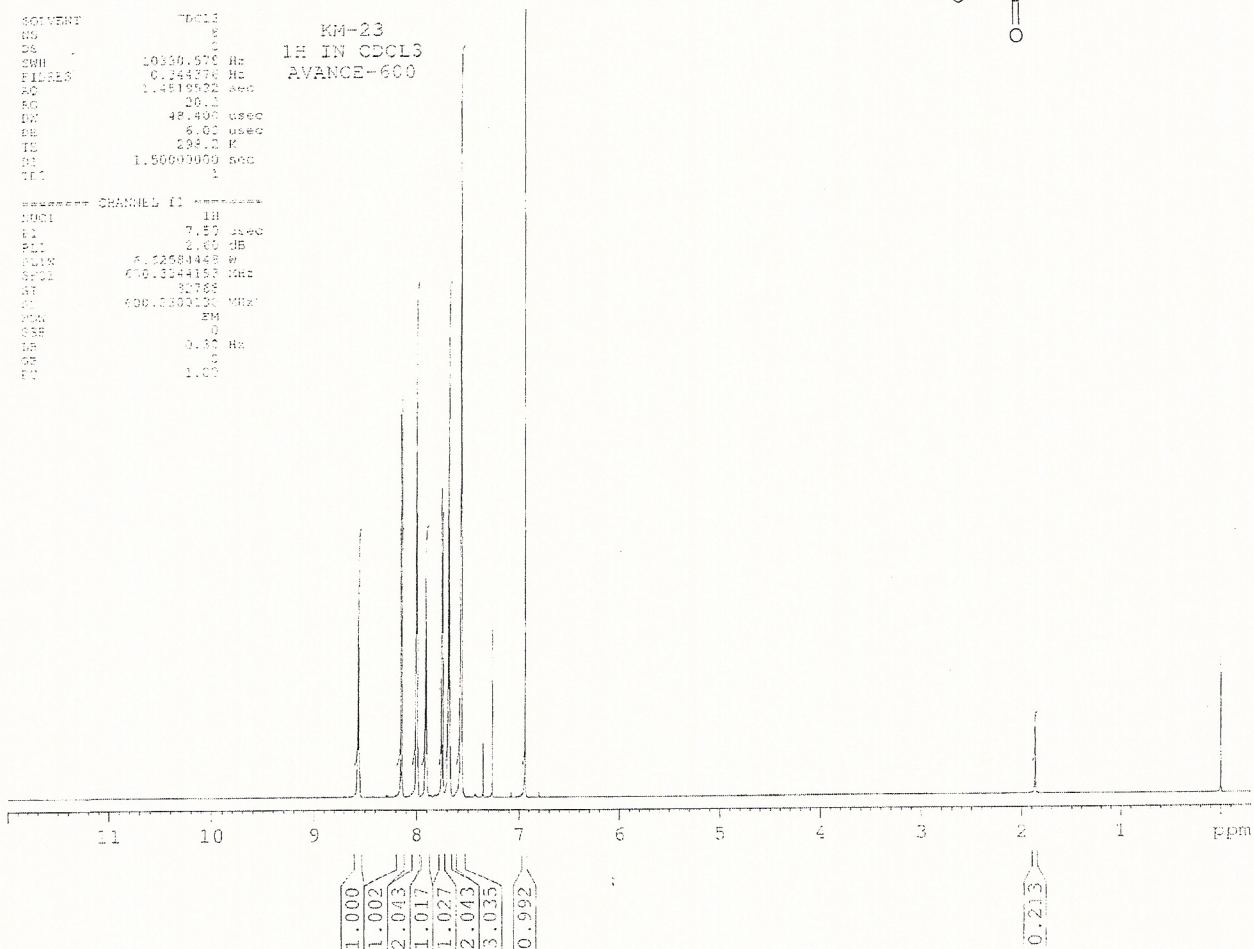
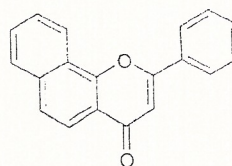
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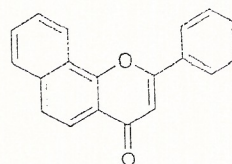
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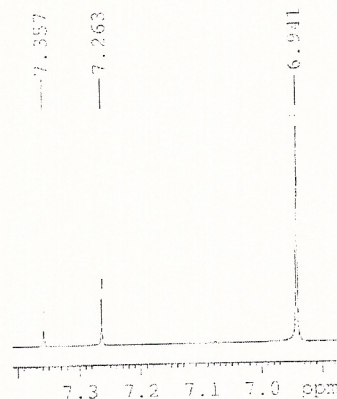
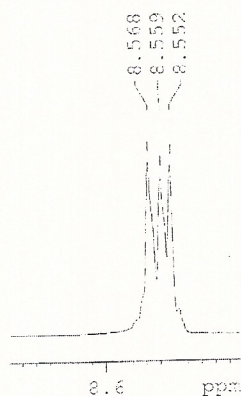
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SOLVENT CDCL3
KI
DE
FIDRES 19329.970 Hz
AQ 0.344110 Hz
R3 0.4819502 sec
R2 50.2
D2 48.400 usec
DE 6.00 usec
TE 298.2 K
D1 1.5000000 sec
TLC 1

----- CHANNEL f1 -----
NUC1 1H
P1 7.50 usec
PL 2.60 db
PRM 6.40584445 K
CFO1 400.12641297 MHz
SI 32788
SF 100.626110 MHz
WDW EM
SSB 0
GB 0
PC 1.40

KM-23
1H IN CDCL3
AVANCE-600



8.154
8.140

8.014
8.007
8.001
7.999
7.995
7.991
7.987

7.917
7.912
7.910
7.904
7.901

7.758
7.744
7.703
7.695
7.694
7.692
7.687
7.681
7.680
7.670

7.578
7.574
7.568
7.563
7.557

