



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: 1209242

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

Molecular Weight: 272.3

Melting Point: 154-156°C

Appearance: White crystalline powder

Solubility: Soluble in chloroform

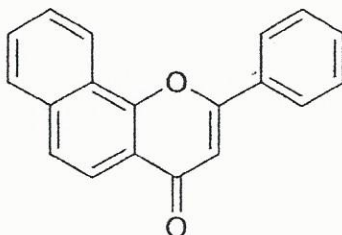
Moisture(KF): 0.35%

TLC: Hexane:Ethyl acetate (1:1)

NMR Spectrum: Enclosed

Storage: Store in cool dry place

Purity (HPLC): 99.79%





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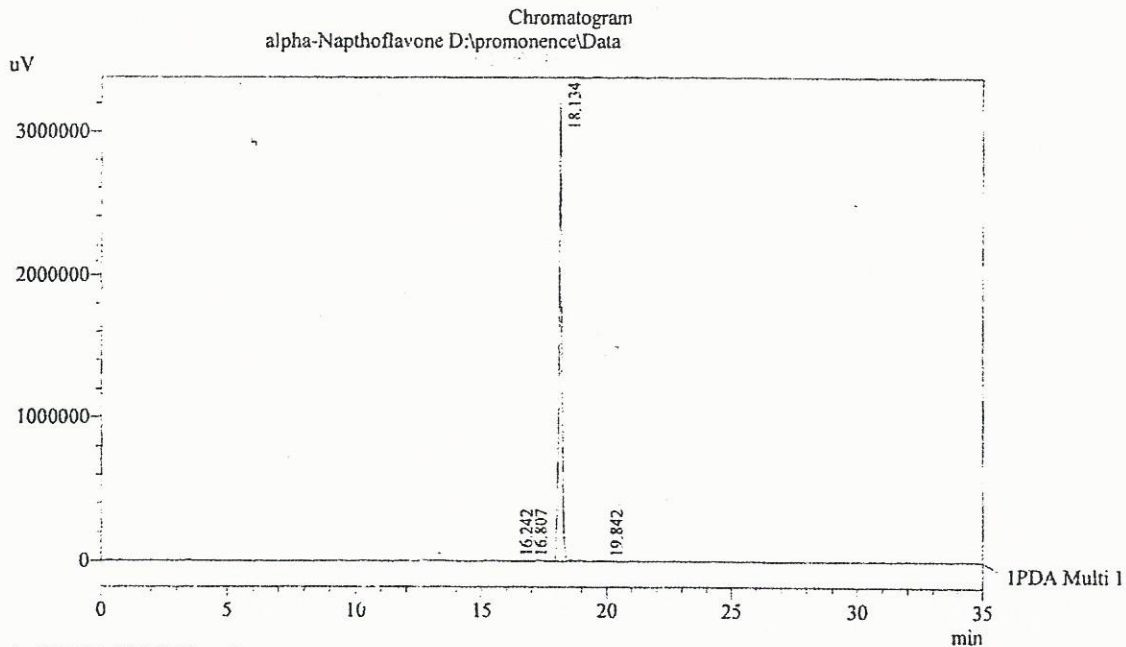
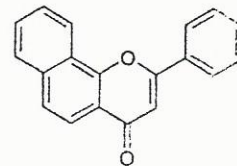
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HPLC ANALYSIS

| | | | |
|------------------|-------------------------|---------------|---|
| Acquired by | : Sanjeev | Catalog no.: | B-003 |
| Sample Name | : alpha-Napthoflavone | Product name: | 7,8-Benzoflavone (α -Naphthoflavone) |
| Sample ID | : 5.0 Kgs Lot | Lot No.: | 1209242 |
| Injection Volume | : 20 μ l. | | |
| Data Filename | : 020912A.lcd | | |
| Method Filename | : Linear Gradient.M.lcm | | |

| | |
|--------------|---|
| Column | : LUNA C-18(2), (250mm 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 |
| Diluent | : Acetonitrile |



I PDA Multi 1 / 254nm 4nm

PeakTable

| Peak# | Name | Ret. Time | Area | Area % | Relative Retention Time |
|-------|---------------------|-----------|----------|--------|-------------------------|
| 1 | RT:16.242 | 16.242 | 13969 | 0.06 | 0.90 |
| 2 | RT:16.807 | 16.807 | 31802 | 0.13 | 0.93 |
| 3 | alpha-Napthoflavone | 18.134 | 25311343 | 99.79 | 1.00 |
| 4 | RT:19.842 | 19.842 | 8301 | 0.03 | 1.09 |
| Total | | | 25365416 | 100.00 | |



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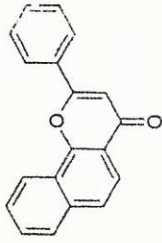
BLDG. 30, SUITE 1

HILLSBOROUGH, NJ 08844

Catalog no.: B-003

Product name: 7,8-Benzoflavone
(α -Naphthoflavone)

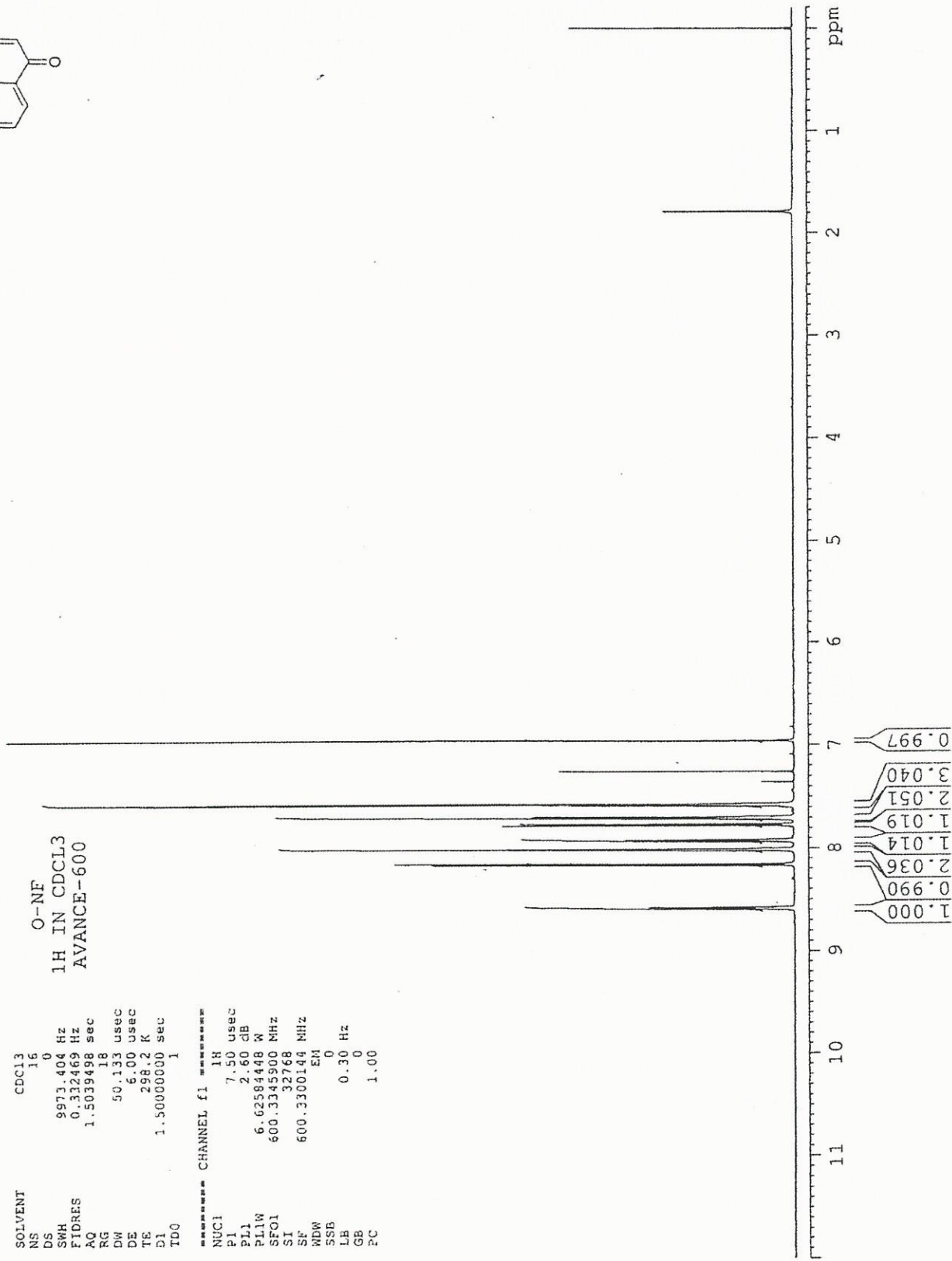
Lot No.: 1209242



SOLVENT CDCL3
 NS 16
 DS 0
 SMH 9973.404 Hz
 FIDRES 0.332469 Hz
 AQ 1.5039498 sec
 RG 18
 DW 50.133 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 600.3345900 MHZ
 SI 32768
 SF 600.3300144 MHZ
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

O-NF
 1H IN CDCL3
 AVANCE-600





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121 STRYKER LANE

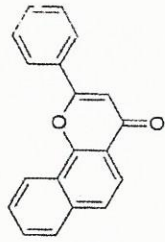
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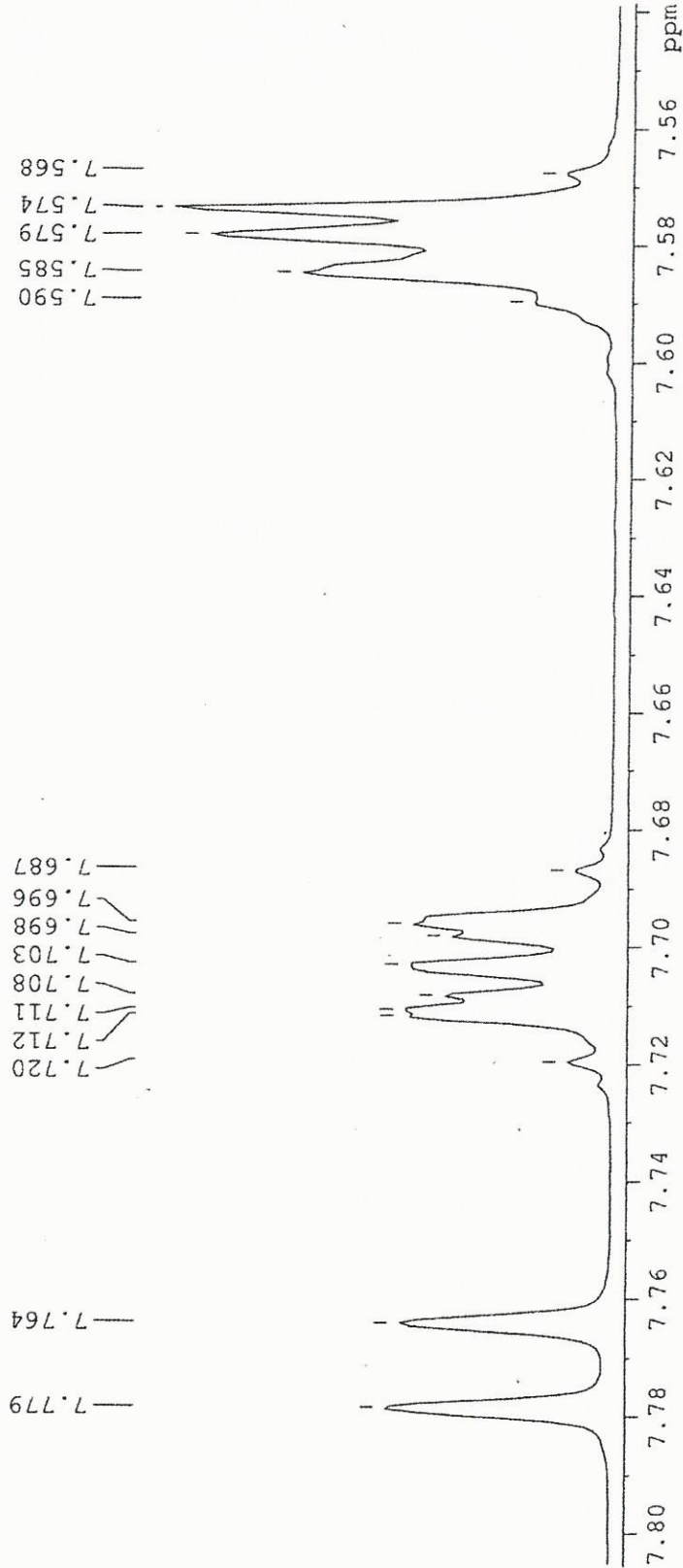
Lot No.: 1209242



O-NF
1H IN CDCL3
AVANCE-600

SOLVENT CDCL3
NS 16
DS 0
SWH 9973.404 Hz
FIDRES 0.332469 Hz
AQ 1.5039498 sec
RG 18
RW 50.133 usec
DE 6.00 usec
TE 298.2 K
D1 1.50000000 sec
TD0 1

***** CHANNEL f1 *****
NUC1 1H
P1 7.50 usec
PL1 2.60 dB
PL1W 6.62584448 W
SFO1 600.3345900 MHz
SI 32768
SF 600.3300144 MHz
RDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





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121 STRYKER LANE

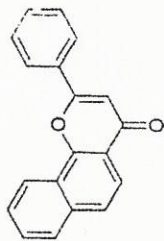
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CDCL3
15
0
9973.404 Hz
0.332469 Hz
1.5039498 sec
18
50.133 usec
6.00 usec
298.2 K
1.50000000 sec
1

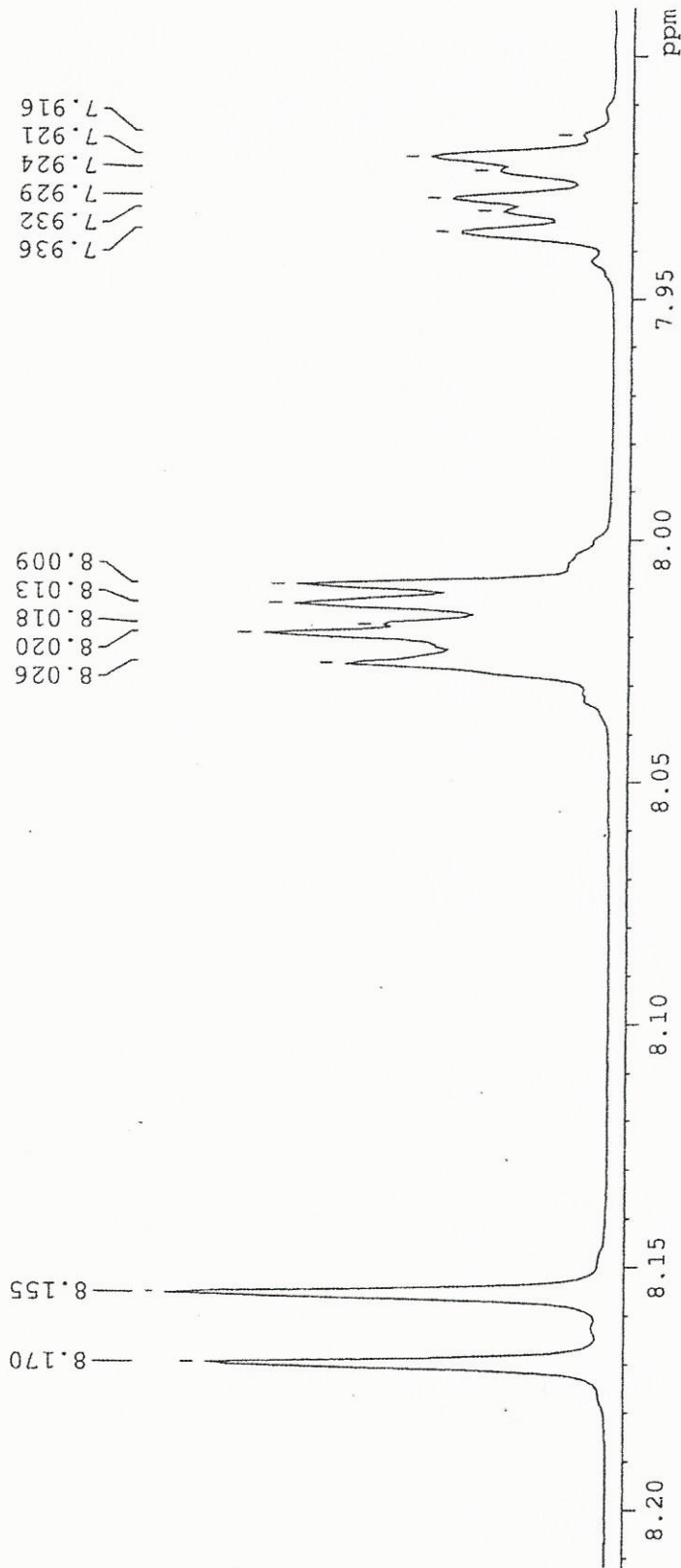
SOLVENT CDCL3
NS 15
DS 0
SRH 9973.404 Hz
FIDRES 0.332469 Hz
AQ 1.5039498 sec
RG 18
DW 50.133 usec
DE 6.00 usec
TE 298.2 K
D1 1.50000000 sec
TD0 1

***** CHANNEL f1 *****
NUC1 1H
P1 7.50 usec
PL1 2.60 dB
PL1W 6.62584448 W
SFO1 600.3345900 MHz
SI 32768
SF 600.3300144 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

8.170
8.155

8.026
8.020
8.018
8.013
8.009

7.936
7.932
7.929
7.924
7.921
7.916





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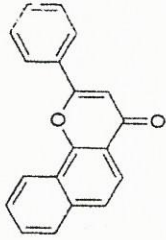
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Lot No.: 1209242



O-NF
1H IN CDCL3
AVANCE-600

SOLVENT CDCL3
NS 16
DS 0
SMH 9973.404 Hz
FIDRES 0.332469 Hz
AQ 1.5039498 sec
RG 18
OR 50.133 usec
DE 6.00 usec
TE 298.2 K
OI 1.50000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 7.50 usec
PL1 2.60 dB
PL1W 6.62584448 W
SFO1 600.334590 MHz
SI 32768
SF 600.3300144 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

