



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

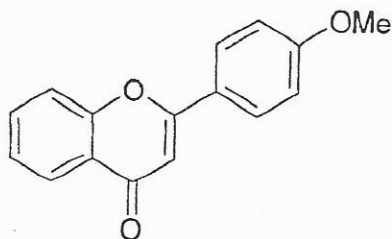
Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

| | |
|--------------------------|--------------------------------------|
| <u>Catalog Number</u> | M-013 |
| <u>Product Name:</u> | 4'-METHOXYFLAVONE |
| <u>CAS Number:</u> | [4143-74-2] |
| <u>Lot Number:</u> | 1306346 |
| <u>Chemical Formula:</u> | $C_{16}H_{12}O_3$ |
| <u>Molecular Weight:</u> | 252.27 |
| <u>Melting Point:</u> | 156-158°C |
| <u>Appearance:</u> | White fluffy powder |
| <u>Moisture (KF):</u> | 0.2% |
| <u>Solubility:</u> | Soluble in Chloroform |
| <u>TLC:</u> | Hexane : Ethyl acetate (8:2) |
| <u>NMR Spectrum:</u> | Enclosed (Confirms to the structure) |
| <u>Storage:</u> | Cool dry place |
| <u>Purity (HPLC):</u> | 99.16% |





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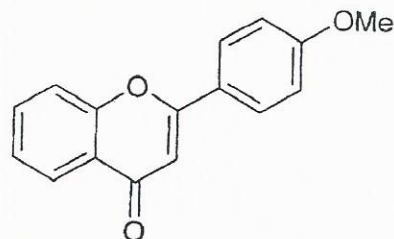
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HPLC ANALYSIS

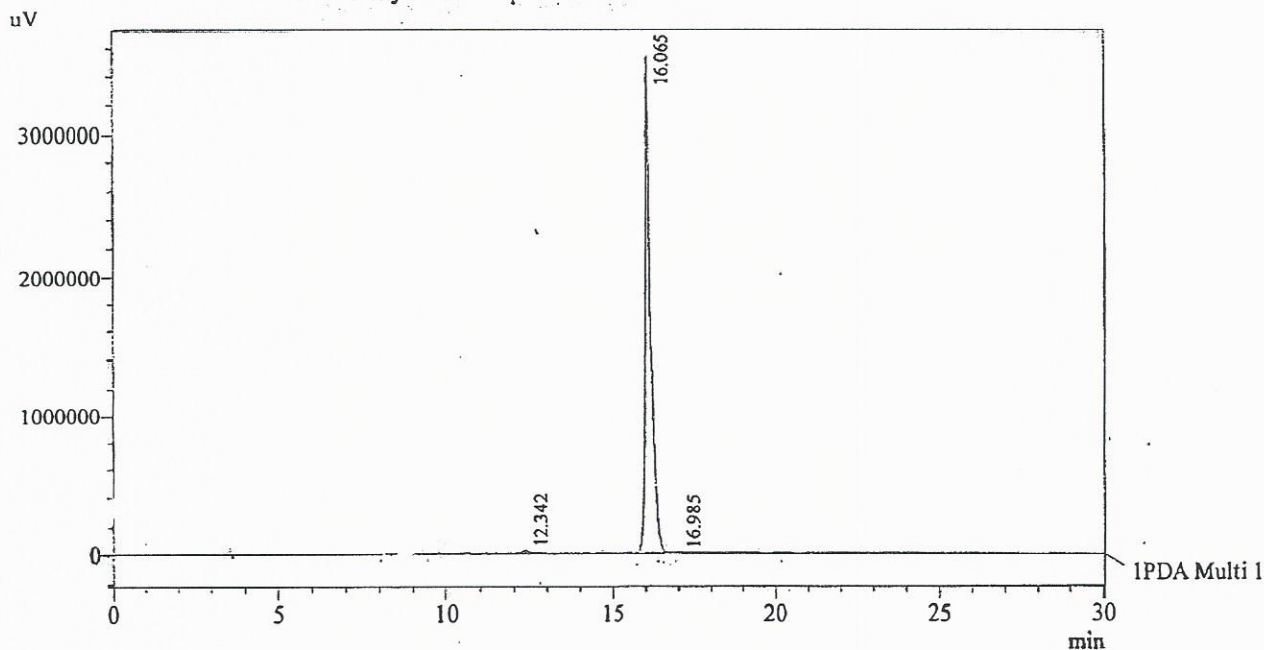
Acquired by : Sanjeev
 Sample Name : 4'-Methoxyflavone
 Sample ID : 150gm Lot
 Injection Volume : 20 μ L
 Data Filename : 180613M.lcd
 Method Filename : Linear Gradient.M.lcm

Catalog No.: M-013
 Product name: 4'-Methoxyflavone
 Lot No.: 1306346



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
 23.0 90 10
 30.0 90 10

Chromatogram
 4'-Methoxyflavone D:\promonence\Data



1 PDA Multi 1 / 230nm 4nm

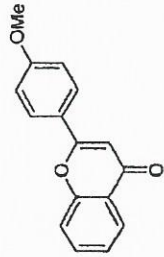
PeakTable

PDA Ch1 230nm 4nm

| Peak# | Name | Ret. Time | Area | Area % | Relative Retention Time |
|-------|-------------------|-----------|----------|--------|-------------------------|
| 1 | RT:12.342 | 12.342 | 256768 | 0.63 | 0.77 |
| 2 | 4'-Methoxyflavone | 16.065 | 40262066 | 99.16 | 1.00 |
| 3 | RT:16.985 | 16.985 | 83812 | 0.21 | 1.06 |
| Total | | | 40602647 | 100.00 | |



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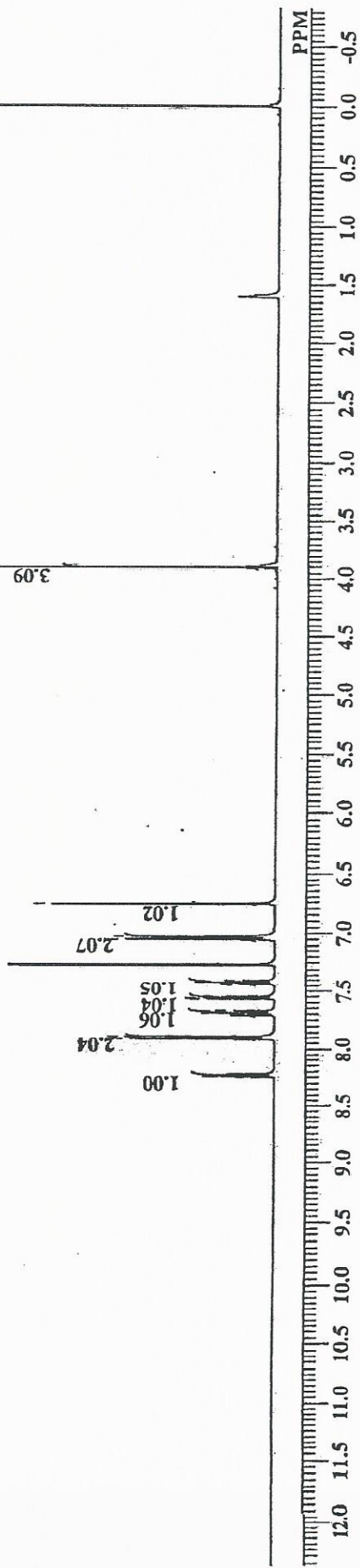
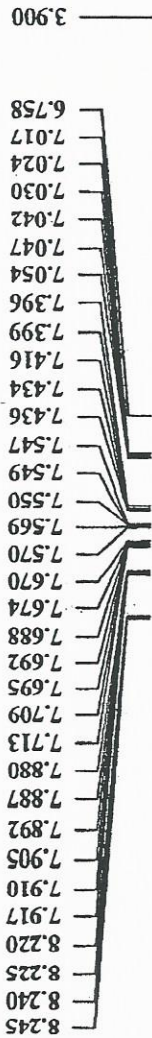


Catalog No.: M-013
Product name: 4'-Methoxyflavone
Lot No.: 1306346

4MF-F 1H NMR CDC13

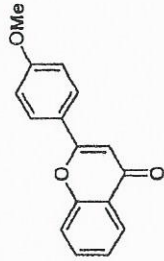
Analysed By: MAK

DFILE 4MF-F 1H.a1s
COMNT 4MF-F 1H NMR CDC13
OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 65536
FREQU 8000.00 Hz
SCANS 16
ACQTM 8.1920 sec
PD 3.0000 sec
PW1 5.80 usec
IRNUC 1H
CTEMP 20.4 c
SLVNT CDCL3
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 21





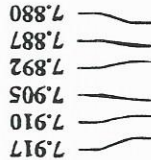
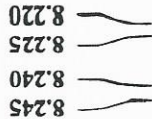
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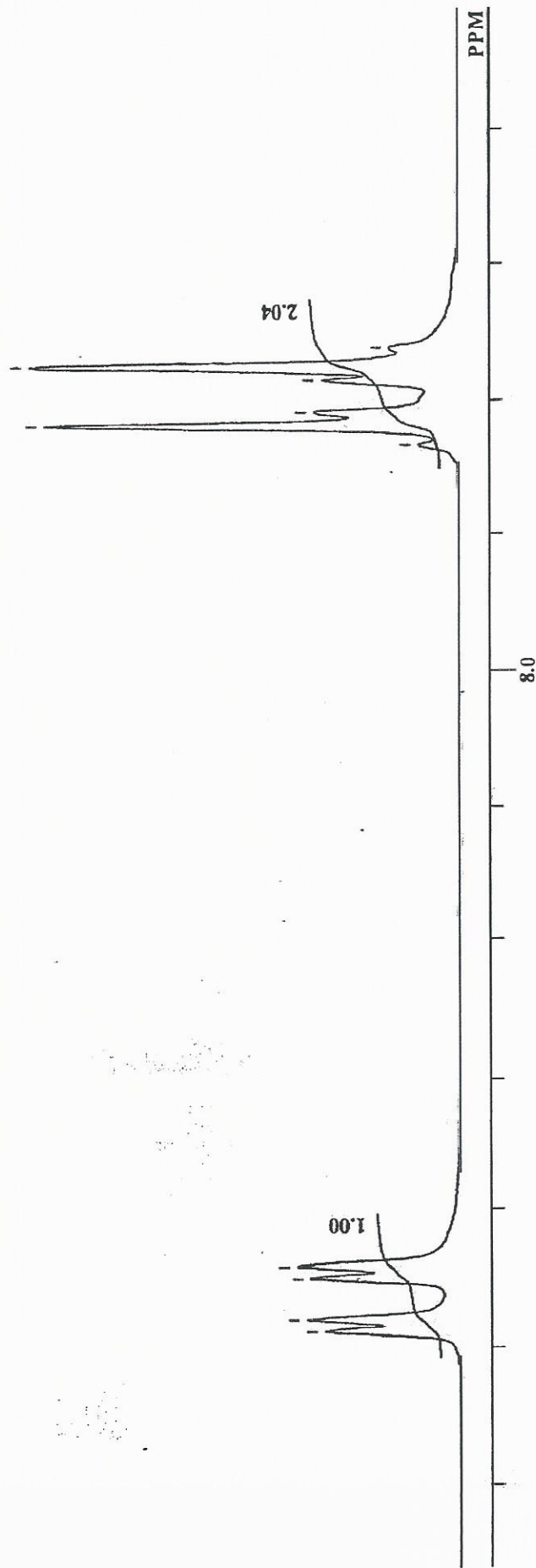
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4MF-F 1H NMR CDC13

Analysed By: MAK

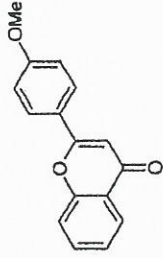


| | |
|--------|--------------------|
| DFILE | 4MF-F 1H.a1s |
| COMINT | 4MF-F 1H NMR CDC13 |
| OBNUC | 1H |
| EXMOD | NON |
| OBFREQ | 399.65 MHz |
| OBSET | 124.00 KHz |
| OBFIN | 10500.00 Hz |
| POINT | 65536 |
| FREQU | 8000.00 Hz |
| SCANS | 16 |
| ACQTM | 8.1920 sec |
| PD | 3.0000 sec |
| PW1 | 5.80 usec |
| IRNUC | 1H |
| CTEMP | 20.4 c |
| SLVNT | CDCL3 |
| EXREF | 0.00 ppm |
| BF | 0.30 Hz |
| RGAIN | 21 |





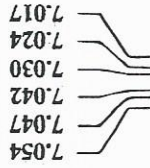
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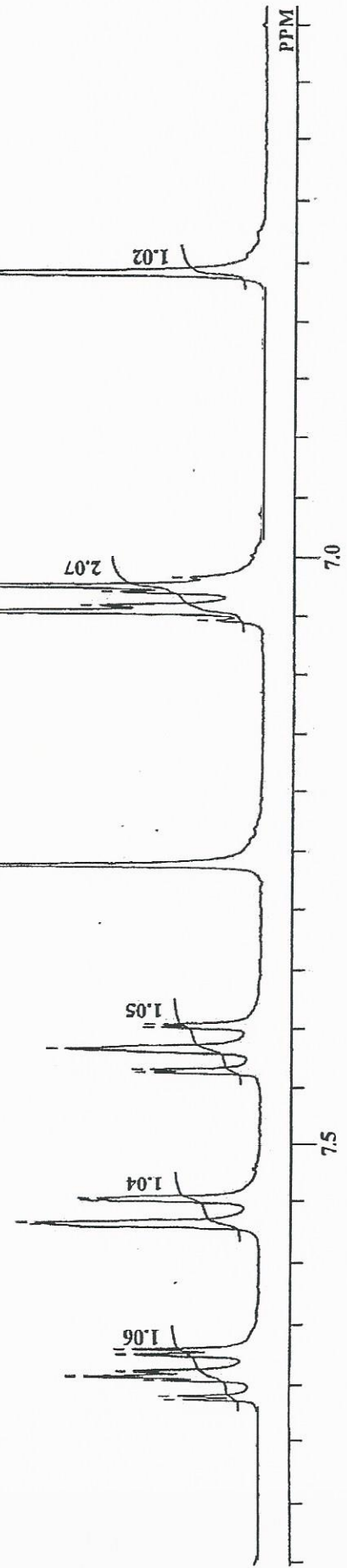
4MF-F 1H NMR CDCI3

Analysed By: MAK



DFILE 4MF-F 1H.als
 COMNT 4MF-F 1H NMR CDCI3
 OBNUC 1H
 EXMOD NON
 OBFRQ 399.65 MHz
 OBSET 124.00 KHz
 OBFIN 10500.00 Hz
 POINT 65536
 FREQU 8000.00 Hz
 SCANS 16
 ACQTM 8.1920 sec
 PD 3.0000 sec
 PW1 5.80 usec
 IRNUC 1H
 CTEMP 20.4 c
 SLVNT CDCL3
 EXREF 0.00 ppm
 BF 0.30 Hz
 RGAIN 21

6.758



PPM