



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: H-021

Product Name: **2'-HYDROXYFLAVANONE**

Cas Number: [17348-76-4]

Lot Number: 1703782

Chemical Formula: C₁₅H₁₂O₃

Molecular Weight: 240.26

Melting Point: 165-168°C

Appearance: Off white powder

Solubility(Color): Faint yellow

Solubility(Turbidity): Clear
(50 mg/ml MeOH)

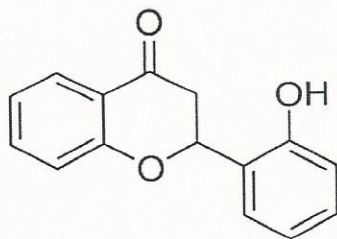
Moisture (KF): 0.36%

TLC: n-Hexane : Ethyl acetate (8:2)

NMR Spectrum: Enclosed (Conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.51%





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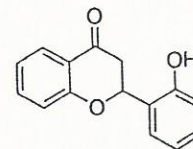
website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

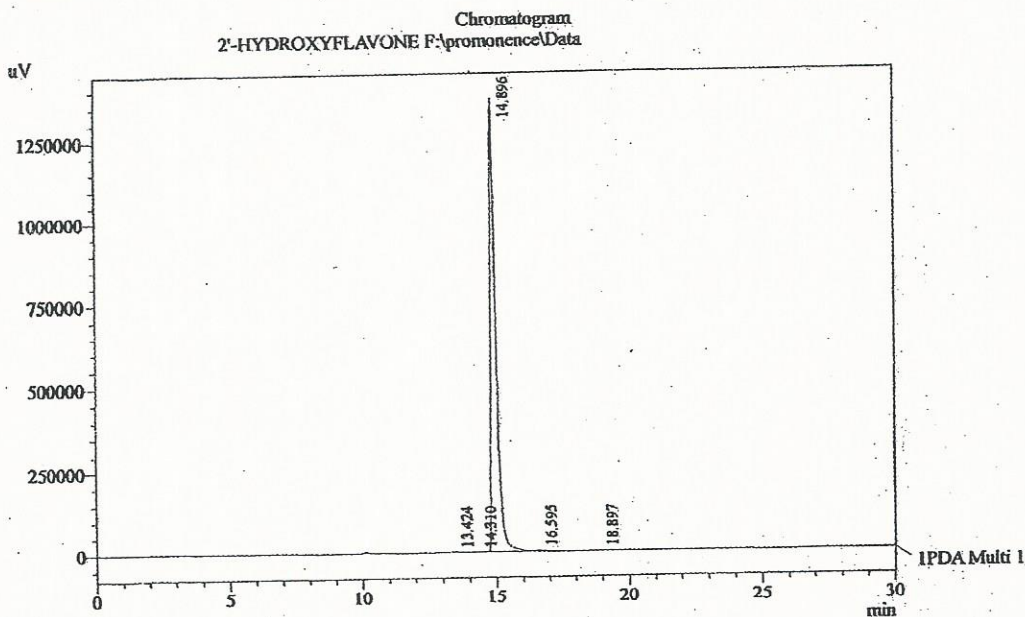
HPLC ANALYSIS

Acquired by : Admin
Sample Name : 2'-HYDROXYFLAVONE
Sample ID : 250 GM
Injection Volume : 20 uL
Data Filename :
Method Filename : Linear Gradient.M.lcm
Report Filename : Default.lcr

Catalog No.: H-021
Product Name: 2'-Hydroxyflavanone
Lot No.: 1703782



Column : Inertsil-ODS 3V 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



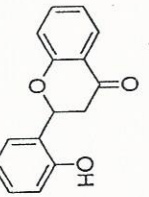
1 PDA Multi 1 / 254nm 4nm

PeakTable

Peak#	Name	Ret. Time	Height	Area %	Relative Retention Time
1	RT:13.424	13.424	863	0.05	0.94
2	2'-HYDROXYFLAVONE	14.310	628	0.05	1.00
3	RT:14.896	14.896	1372637	99.51	1.04
4	RT:16.595	16.595	2628	0.25	1.16
5	RT:18.897	18.897	1321	0.15	1.32
Total			1378077	100.00	



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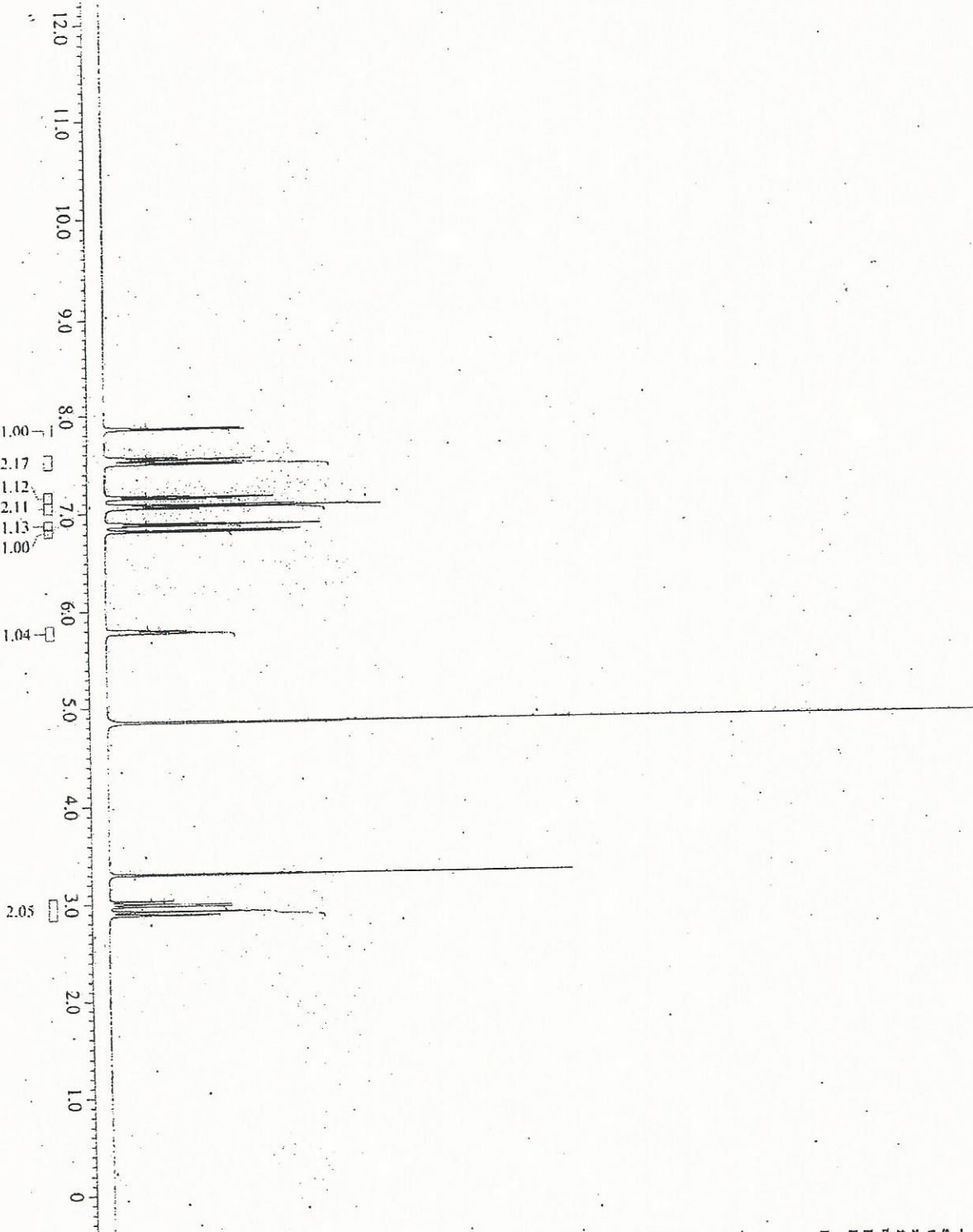


Catalog No.: H-021
 Product Name: 2-Hydroxyflavanone
 Lot No.: 1703782

2-HFL # 250g Lot
 013872/17

proton-1-2.jdf
 7.853
 7.850
 7.598
 7.167
 7.165
 7.090
 7.073
 7.059
 6.888
 6.831
 6.815
 5.806
 5.800
 5.780
 5.774

3.033
 3.007
 3.000
 2.974
 2.923
 2.917
 2.889
 2.883



```

----- PROCESSING PARAMETERS -----
semp( 0.3[Hz], 0.0[sec] )
crpepsoid( 0[sec], 0[sec], 80[sec], 100[sec] )
zerofill( 4 )
fft( 1, TRUE, TRUE )
machinphase
ppm
phase( 1.08052, 0.57.36291[sec] )
Derived from: 2-HFL # 250g
  
```

```

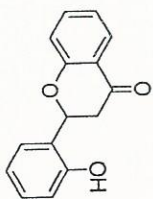
Filename           = 2-HFL # 250g
Instrument          = NMR-500MHz (ZEOL)
Instrument Id      = NMR-02
Author             = gyl1243
Solvent            = METHANOL-D4
Spectrometer      = JNM-ECS500R/S1
Reviewed by       = Ranjith
Experiment         = proton.jxp
  
```

```

Acquisition Parameter
X Domain          = 1H
X_Offset          = 7.0[ppm]
X_Sweep           = 11.28158845[Hz]
Scans             = 64
Relaxation_Delay = 2[sec]
  
```




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Catalog No.: H-021
 Product Name: 2-Hydroxyflavanone
 Lot No.: 1703782

2-HPL # 250g Lot
 013872/17

proton-1-2.jdf

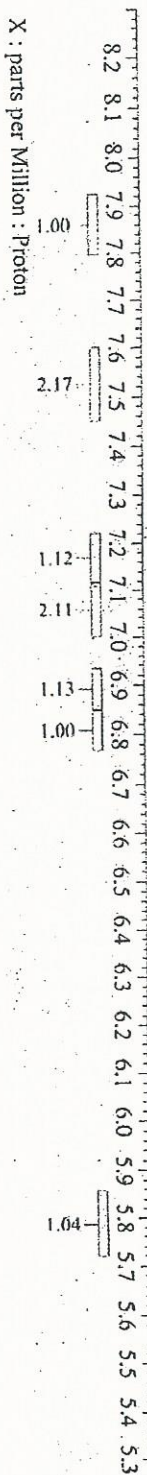
7.869
 7.853
 7.567
 7.564
 7.550
 7.536
 7.533
 7.513
 7.498
 7.167
 7.165
 7.152
 7.149
 7.090
 7.073
 7.059
 6.904
 6.888
 6.874
 6.831
 6.815

5.806
 5.800
 5.780
 5.774

----- PROCESSING PARAMETERS -----
 secp (0.3[Hz], 0.0[sec])
 trapezoid (0[Hz], 0[Hz], 80[Hz], 100[Hz])
 zerofill (4)
 ffc (1, TRUE, TRUE)
 machinphase
 ppm
 phase (1.08052, 0, 57.36629[Hz])
 Derived from: 2-HPL # 250g

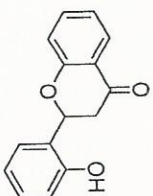
Filename = 2-HPL # 250g
 Instrument = NMR-500MHz (MNOU)
 Instrument Id = NMR-02
 Author = GYL1243
 Solvent = METHANOL-D4
 Spectrometer = JNM-ECS500R/S1
 Reviewed by = Ranjith
 Experiment = proton_jxp

Acquisition Parameter
 X Domain = 1H
 X_Offset = 7.0[ppm]
 X_Sweep = 11.28158845[kHz]
 Scans = 64
 Relaxation_Delay = 2[sec]





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Catalog No.: H-021
 Product Name: 2-Hydroxyflavanone
 Lot No.: 1703782

2-HFL # 250g Lot: _____
 013872/17

1.033
 1.007
 1.000
 1.974
 1.923
 1.917
 1.889
 1.888

```

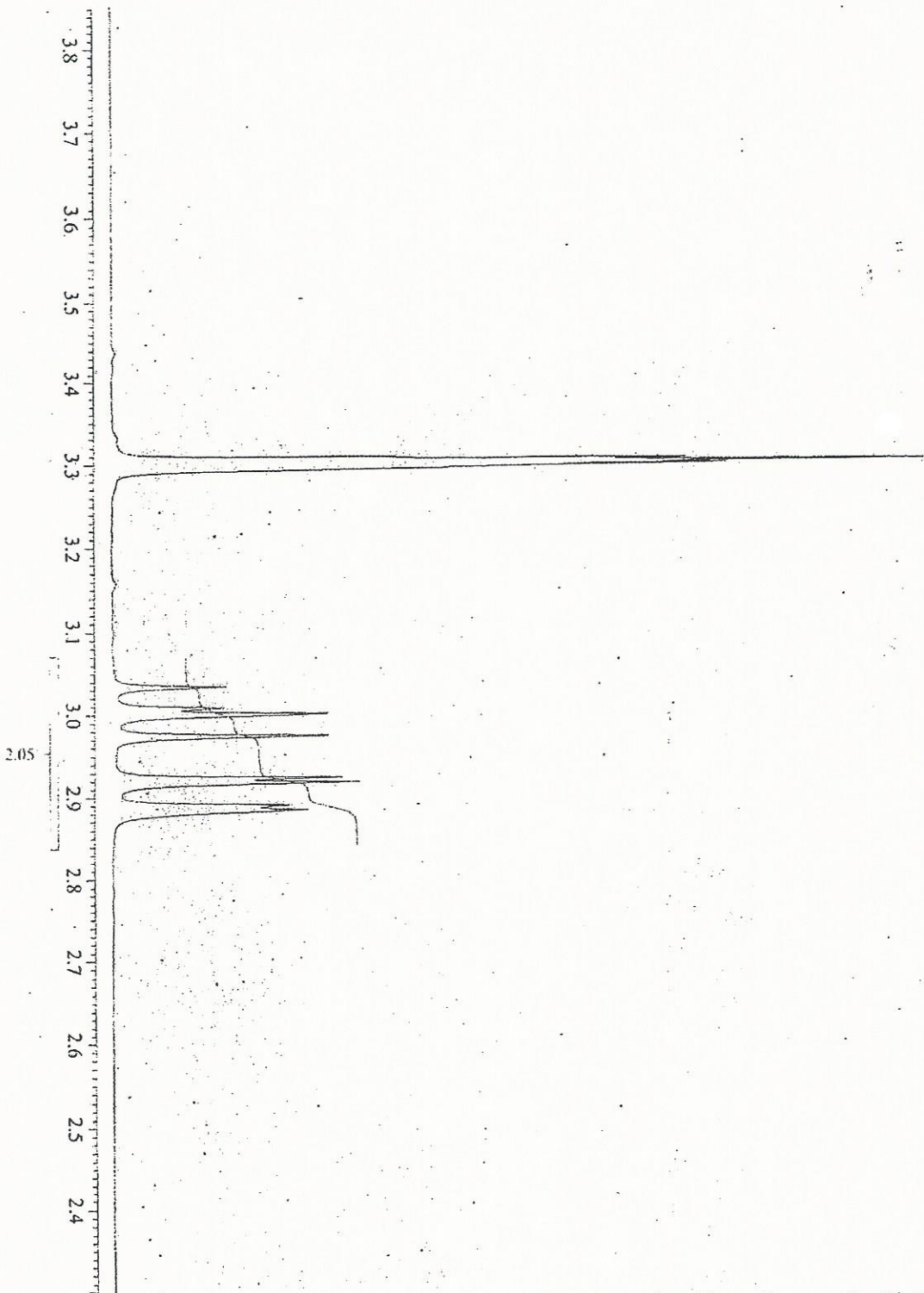
----- PROCESSING PARAMETERS -----
sexp( 0.31Hz, 0.01s )
trapzoid( 0[1], 0[1], 80[1], 100[1] )
zerofill( 4 )
fft( 1, TRUE, TRUE )
machinephase
ppm
phase( 1.08052, 0, 57.36629[1] )
Derived from: 2-HFL # 250g
  
```

```

Filename           = 2-HFL # 250g
Instrument          = NMR-500MHz (CPOL)
Instrument id      = NMR-02
Author             = GY1243
Solvent            = METHANOL-D4
Spectrometer       = JNM-EZ500R/S1
Reviewed by       = Ranjith
Experiment         = proton.jxp
  
```

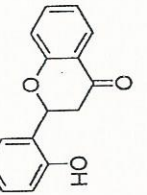
```

Acquisition Parameter
X_Domain           = 1H
X_Offset          = 7.0 [ppm]
X_Sweep           = 11.28158845 [kHz]
Scans             = 64
Relaxation_Delay  = 2[s]
  
```





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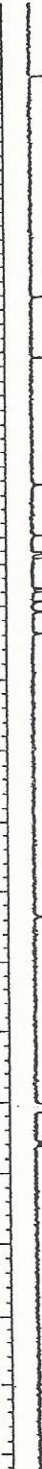


Catalog No.: H-021
 Product Name: 2-Hydroxyflavanone
 Lot No.: 1703782

2-HPL#250 gm-lot: _carbon-1-2.jdt
 013117/17

Chemical Shift (ppm)
194.852
163.661
155.238
137.428
130.272
127.748
127.599
126.874
122.430
122.022
120.674
119.229
116.186
76.395
44.277

X : parts per Million : Carbon13



```

---- PROCESSING PARAMETERS ----
smp ( 3.01Hz, 0.01s )
expnsld( 0[s], 0[s], 80[s], 200[s] )
prt ( 1, TRUE, TRUE )
mchtnphase
ppm
auto_reference ( 5[s], TRUE )
Devised from: 2-HPL#250
  
```

```

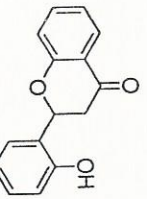
Filename          = 2-HPL#250
Instrument         = NMR-500MHz (ZSOL)
Instrument Id     = NMR-02
Author           = gxy1243
Reviewed by     = PurushoCham
Solvent         = METHANOL-D4
Spectrometer    = JNM-ECE500R/S1
Experiment      = carbon_1xp
  
```

```

Acquisition Parameter
X_Domain          = 13C
X_Offset         = 100 [ppm]
X_Sweep          = 39.55696203 [kHz]
Scans            = 512
Relaxation_Delay = 2[s]
  
```




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Catalog No.: H-021
 Product Name: 2-Hydroxyflavanone
 Lot No.: 1703782

2-HPL#250 gm-lot
 013117/17

_carbon-1-2.jdf

137.428
130.272
127.748
127.599
126.874
122.430
122.022
120.674
119.229
116.186

```

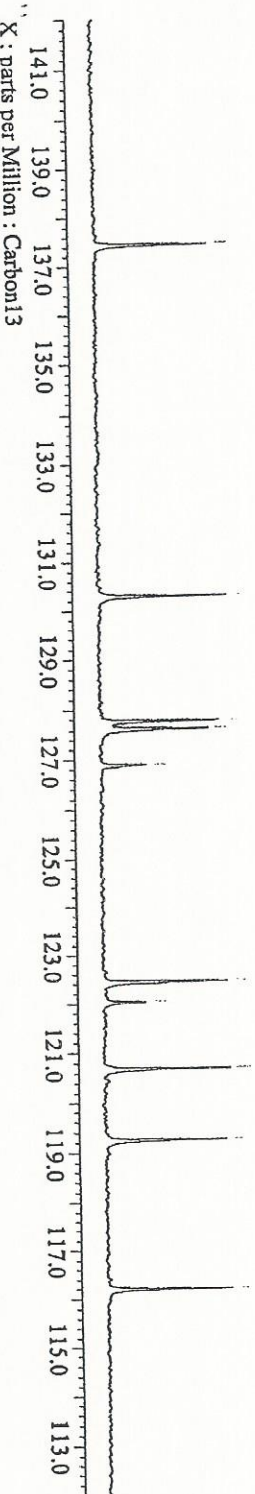
----- PROCESSING PARAMETERS -----
smp( 3.0[Hz], 0.0[s] )
trapzoid( 0[%], 0[%], 80[%], 100[%] )
hexd(11( 2 )
ft( 1, PROZ, PROZ )
machinphase
ppm
auto_reference( 5[%], TRUE )
Derived from: 2-HPL#250
  
```

```

Filename = 2-HPL#250
Instrument = NMR-500MHz (JEOL)
Instrument Id = NMR-02
Author = GYL243
Reviewed by = Purushotham
Solvent = METHANOL-D4
Spectrometer = CRM-82250DK/81
Experiment = carbon_1xp
  
```

```

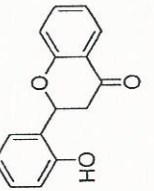
Acquisition Parameter
X_Domain = 13C
X_Offset = 100 [ppm]
X_Sweep = 39.55696203 [kHz]
Scans = 512
Relaxation_Delay = 21[s]
  
```



X : parts per Million : Carbon13



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Catalog No.: H-021
Product Name: 2'-Hydroxyflavanone
Lot No.: 1703782

Sample Information
Sample Name : 2-HFL#250gm-Lot
Batch No : 013119/17
Data File : 2-HFL#250gm-Lot
Method File : Test1(ESI).lcm
Acquired by : Prasad
Instrument ID : LCMS-01

M/S Spectrum Graph

