



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: **021272**

Product Name: **4-HYDROXYCHALCONE**
 (4-Hydroxybenzylidene acetophenone)

CAS Number: [20426-12-4]

Lot Number: 1306344

Chemical Formula: C₁₅H₁₂O₂

Molecular Weight: 224.26

Melting Point: 180-182°C

Appearance: Yellow powder

Solubility: Soluble in DMSO

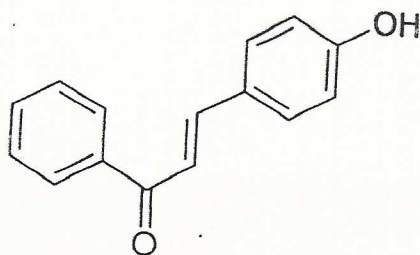
Water Content (KF): 0.3%

TLC: Chloroform : Methanol (9.5:0.5)

NMR Spectrum: Enclosed (Confirms to the structure)

Storage: Cool dry place

Purity (HPLC): 99.11%





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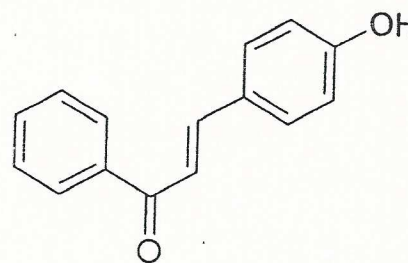
e-mail: chemical@indofinechemical.com

HPLC ANALYSIS

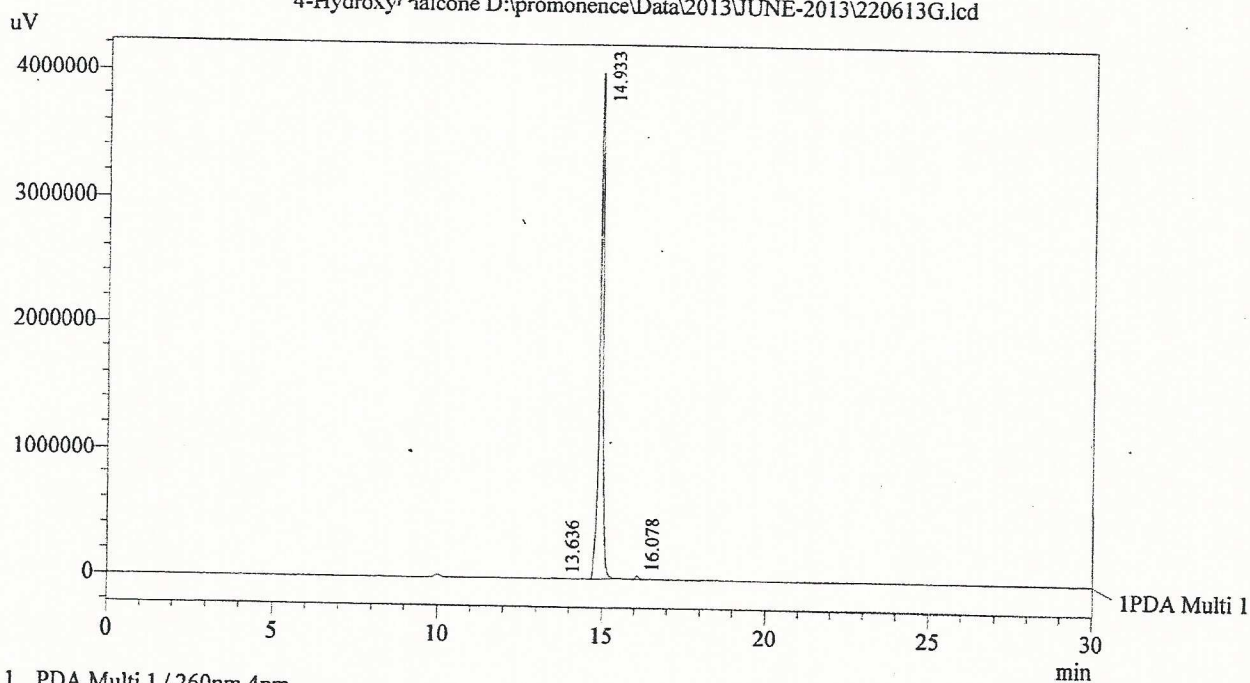
Acquired by : Sanjeev
 Sample Name : 4-Hydroxychalcone
 Sample ID : 1.0 Kg Lot
 Injection Volume : 20 uL
 Data Filename : 220613G.lcd
 Method Filename : Linear Gradient.M.lcm

Catalog No.: 021272
 Product name: 4-Hydroxychalcone
 Lot No.: 1306344

Column : LUNA C-18(2), (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 : Methanol



Chromatogram
 4-Hydroxychalcone D:\promonence\Data\2013\JUNE-2013\220613G.lcd



1 PDA Multi 1 / 260nm 4nm

PeakTable

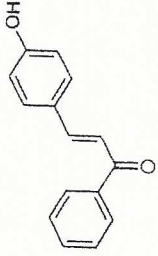
PDA Ch1 260nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:13.636	13.636	56293	0.18	0.91
2	4-Hydroxychalcone	14.933	30972244	99.11	1.00
3	RT:16.078	16.078	221757	0.71	1.08
Total			31250293	100.00	



INDOFINE Chemical Company, Inc.
 121 STRYKER LANE
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 HILLSBOROUGH, NJ 08844

Catalog No.: 021272
 Product name: 4-Hydroxychalcone
 Lot No.: 1306344

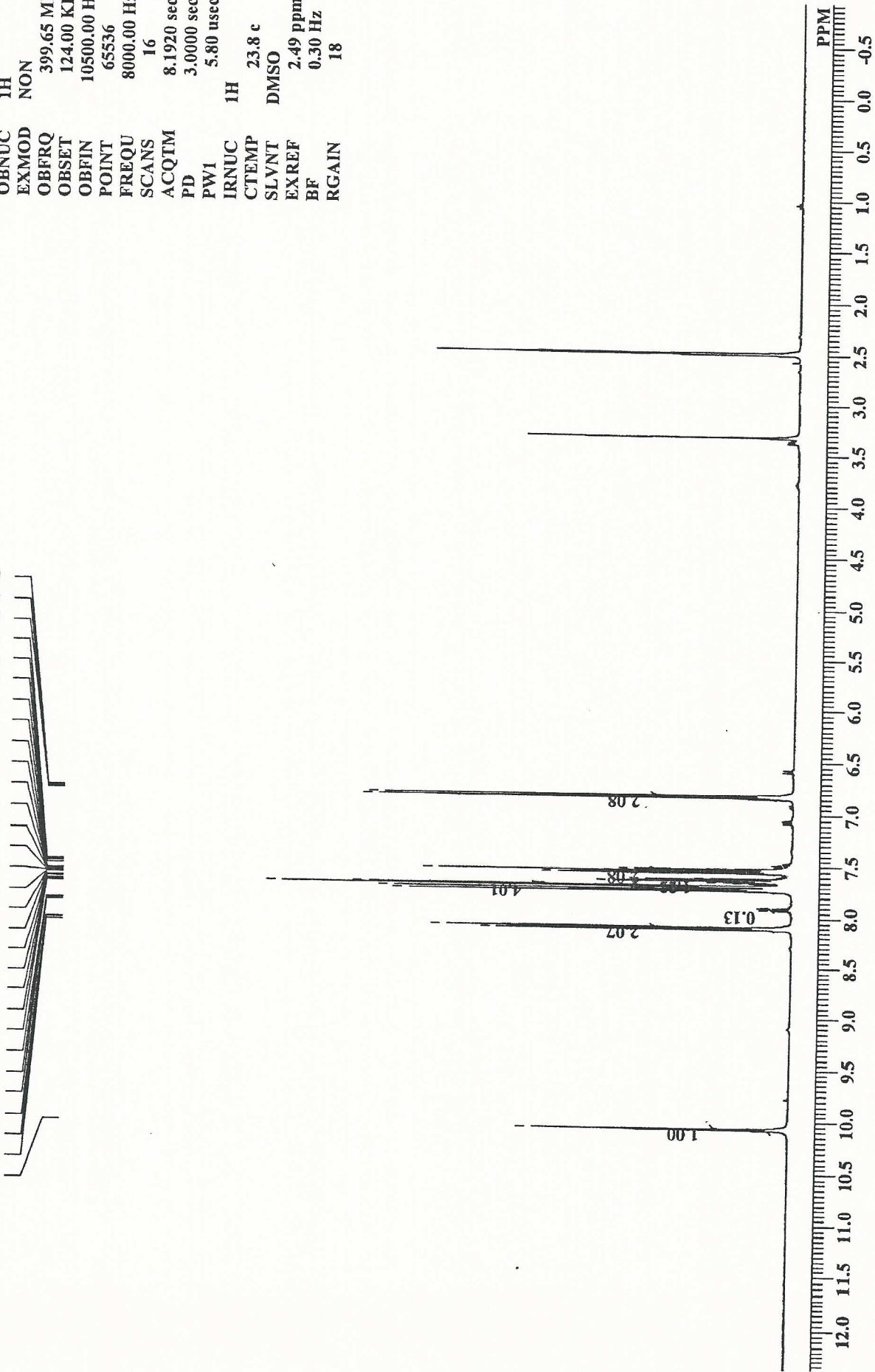


4-OH-CH 1H NMR DMSO-d6

Analysed By : MAK

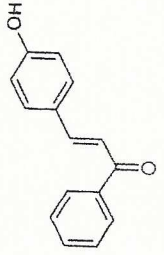
10.079
8.113
8.096
8.092
7.925
7.908
7.904
7.740
7.736
7.719
7.697
7.687
7.660
7.657
7.654
7.648
7.644
7.639
7.633
7.623
7.620
7.617
7.566
7.547
7.533
7.529
7.527
6.842
6.837
6.820

DFILE 4-OH-CH-01.als
 COMINT 4-OH-CH 1H NMR DMSO
 DATIM Sat Jun 22 03:54:37 2013
 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
 1H
 IRNUC 23.8 c
 CTEMP DMSO
 SLVNT 2.49 ppm
 EXREF 0.30 Hz
 BF 18
 RGAIN





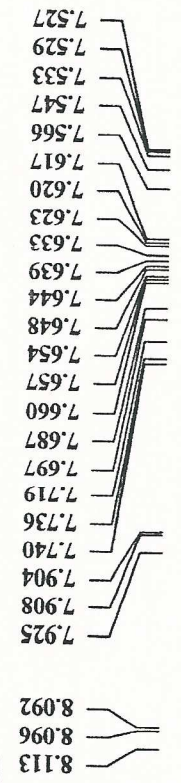
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Catalog No.: 021272
 Product name: 4-Hydroxycalconone
 Lot No.: 1306344

4-OH-CH 1H NMR DMSO-d6

Analysed By: MAK



DFILE 4-OH-CH-01.a1s
 COMNT 4-OH-CH 1H NMR DMS
 SATIM Sat Jun 22 03:54:37 2013
 1H 1H
 NON
 EXMOD 399.65 MHz
 OBFRO 124.00 KHz
 OBSET 10500.00 Hz
 OBFIN 65536
 POINT 8000.00 Hz
 FREQU 16
 SCANS 8.1920 sec
 ACQTM 3.0000 sec
 PD 5.80 usec
 PW1 1H
 IRNUC 1H
 CTEMP 23.8 c
 SLVNT DMSO
 EXREF 2.49 ppm
 BF 0.30 Hz
 RGAIN 18

