



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: 19-069

Product Name: **4',5-DICHLORO-2-HYDROXYBENZOPHENONE**

CAS Number: [61785-35-1]

Lot Number: 1406468

Chemical Formula: $C_{13}H_8Cl_2O_2$

Molecular Weight: 267.11

Melting Point: 79-82°C

Appearance: Light yellow powder

Solubility: Soluble in chloroform

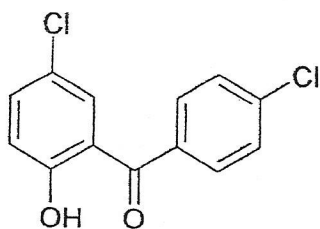
TLC: Hexane:Ethyl acetate (9.8 : 0.2)

Moisture(KF): 0.3%

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.76%





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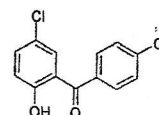
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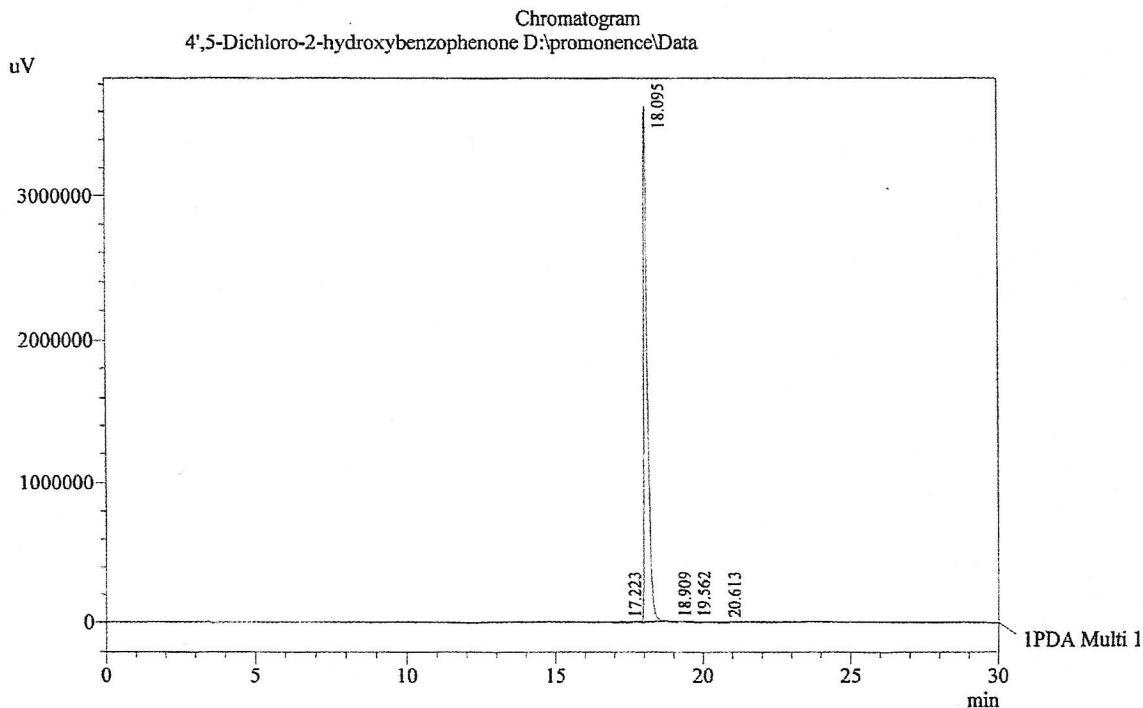
HPLC ANALYSIS

Acquired by : Sanjeev
Sample Name : 4',5-Dichloro-2-hydroxybenzophenone
Sample ID : 725 gms Lot
Injection Volume : 20 uL
Data Filename : 030514D.lcd
Method Filename : Linear Gradient.M.lcm

Catalog No.: 19-069
Product Name: 4',5-Dichloro-2-hydroxybenzophenone
Lot No.: 1406468



Column : Phenomenex Gemini C-18(2), (250mm x4.6mm 5.0μ)
Flow : 1.000 mL/min.
Mobile Phase : A(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

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:17.223	17.223	22265	0.07	0.95
2	4',5-Dichloro-2-OH benzophenone	18.095	31258170	99.76	1.00
3	RT:18.909	18.909	5733	0.02	1.04
4	RT:19.562	19.562	41155	0.13	1.08
5	RT:20.613	20.613	6453	0.02	1.14
Total			31333777	100.00	



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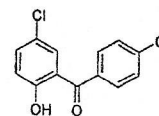
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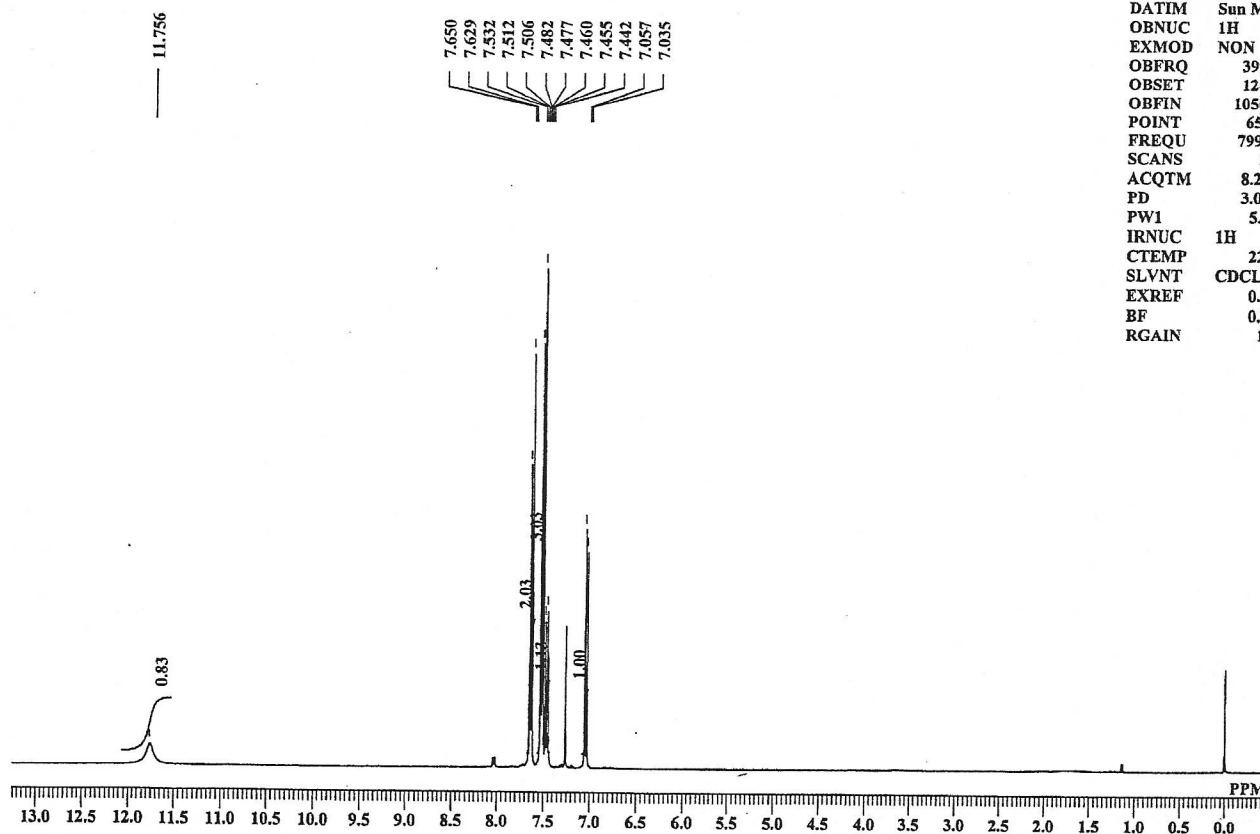
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Lot No.: 1406468



BENZOPHENONE 1H NMR CDCl₃
Analysed By: MSR



DFILE	BENZOPHENONE 1H-02.als
COMNT	BENZOPHENONE 1H NMR C
DATIM	Sun May 04 15:36:53 2014
OBNUC	1H
EXMOD	NON
OBFRQ	399.65 MHz
OBSET	124.00 KHz
OBFIN	10500.00 Hz
POINT	65536
FREQU	7992.01 Hz
SCANS	16
ACQTM	8.2002 sec
PD	3.0000 sec
PW1	5.80 usec
IRNUC	1H
CTEMP	22.4 c
SLVNT	CDCL ₃
EXREF	0.00 ppm
BF	0.30 Hz
RGAIN	17



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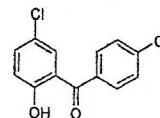
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BENZOPHENONE 1H NMR CDCl3
Analysed By: MSR

DFILE BENZOPHENONE 1H-02.als
COMNT BENZOPHENONE 1H NMR C
DATIM Sun May 04 15:36:53 2014
OBNUC 1H
EXMOD NON
OBFRQ 399.65 MHz
OBSET 124.00 KHz
OBFIN 10500.00 Hz
POINT 65536
FREQU 7992.01 Hz
SCANS 16
ACQTM 8.2002 sec
PD 3.0000 sec
PW1 5.80 usec
IRNUC 1H
CTEMP 22.4 c
SLVNT CDCL3
EXREF 0.00 ppm
BF 0.30 Hz
RGAIN 17

