



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

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e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

Catalog Number: 12-301

Product Name: **4'-CYCLOHEXYLACETOPHENONE**

CAS Number: [18594-05-3]

Lot Number: 1907288

Chemical Formula: C₁₄H₁₈O

Molecular Weight: 202.30

Melting Point: 68-70°C

Appearance: White crystalline powder

Solubility: Soluble in Chloroform

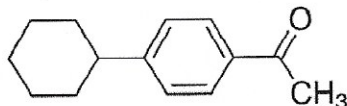
Moisture (KF): 0.34%

TLC: Hexane : Ethyl acetate (9.5:0.5)

NMR Spectrum: Enclosed (Confirms to the structure)

Storage: Store in a cool, dry place

Purity (HPLC): 99.72%



Prepared by:

Ramesh Mandadi

Ramesh Mandadi

Director of Operations

Reviewed and approved by:

Sujata Moton

S. Moton

VP



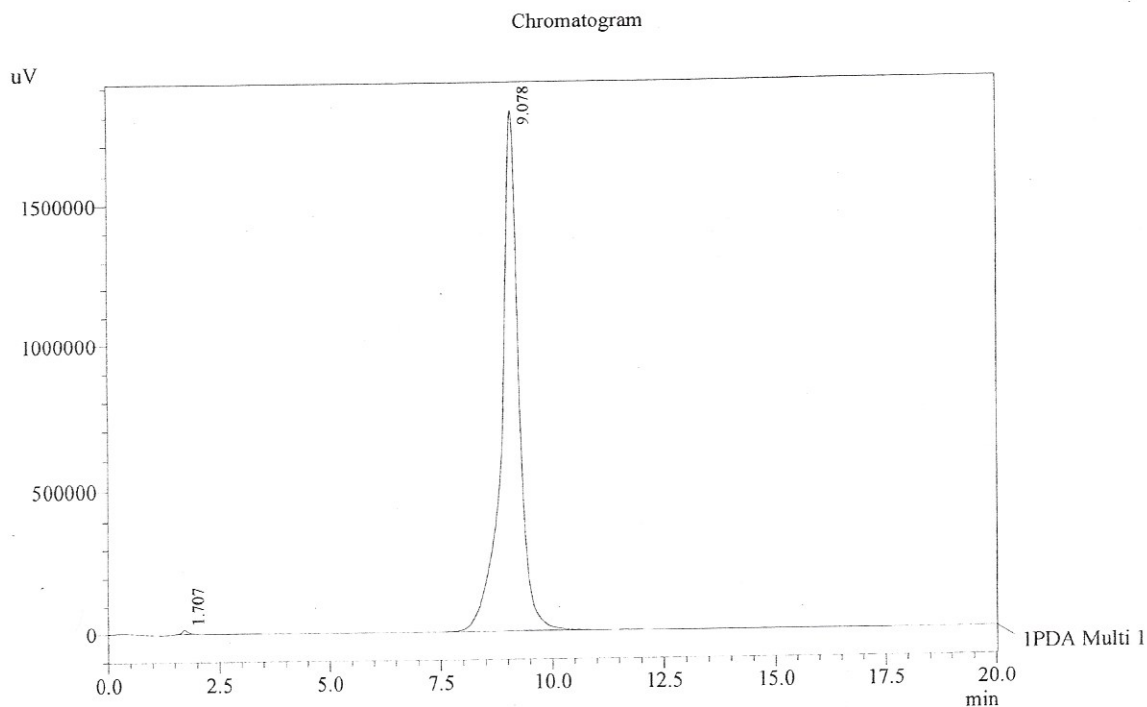
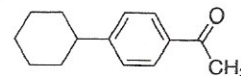
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HPLC ANALYSIS

Acquired by : Admin
Sample Name : 4'-Cyclohexyl acetophenone
Sample ID : # 1.0 kg-LOT
Injection Volume : 20 uL
Data Filename : 130719E.lcd
Method Filename : Isocratic Method-New.lcm
Report Filename : Default.lcr

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Product Name: 4'-Cyclohexylacetophenone
Lot No.: 1907288



1 PDA Multi 1 / 254nm 4nm

PeakTable

PDA Ch1 254nm 4nm

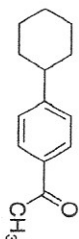
Peak#	Name	Ret. Time	Height	Area %	Relative Retention Time
1	RT:1.707	1.707	15337	0.28	0.00
2	RT:9.078	9.078	1813247	99.72	0.00
Total			1828584	100.00	

Prepared by:
Ramesh Mandadi
Ramesh Mandadi
Director of Operations

Reviewed and Approved by:
Sujata Moton
Sujata Moton
VP



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Lot No.: 1907288

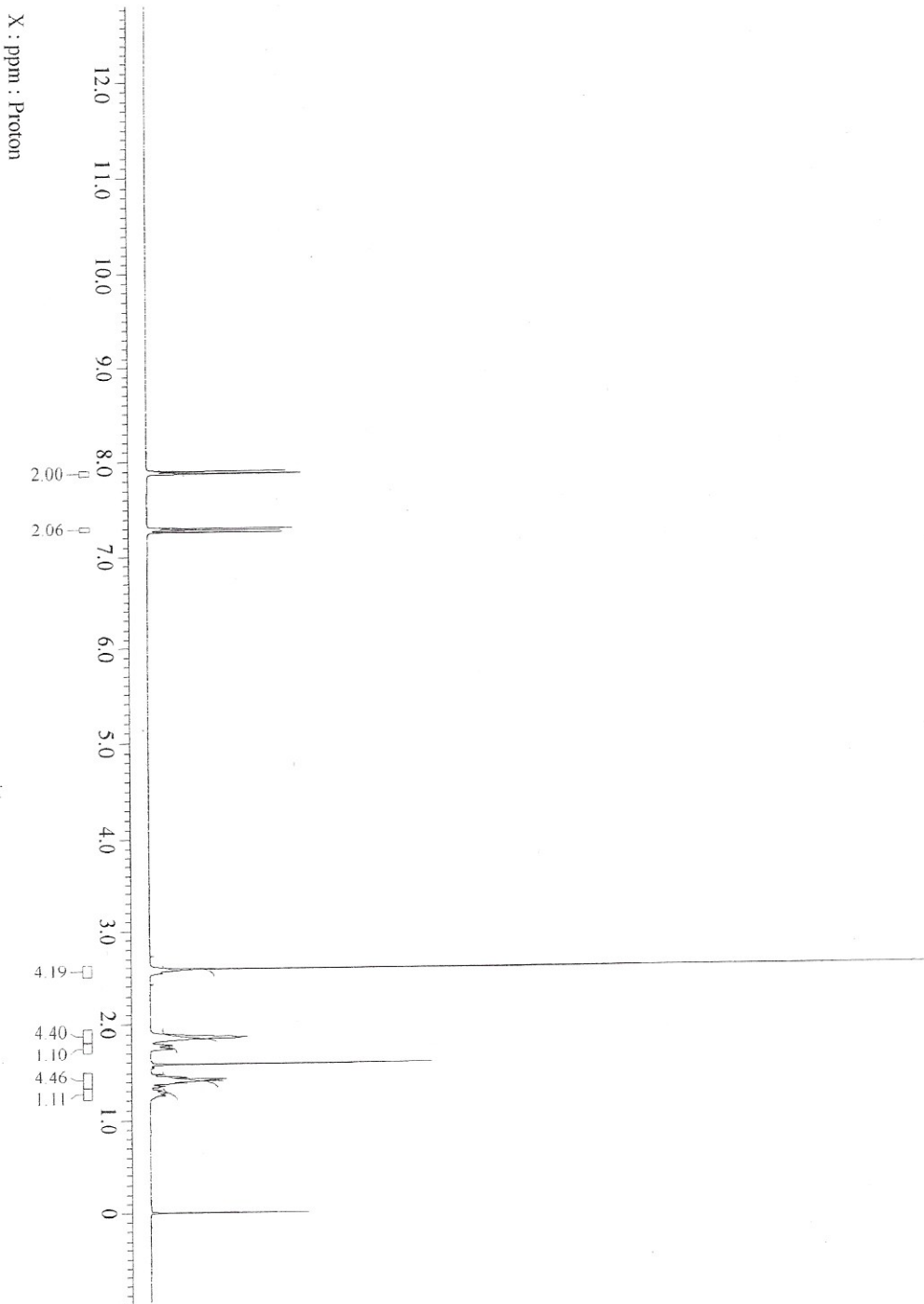
7.900
7.895
7.883
7.879
7.305
7.285

2.580
2.568
2.560
2.547
2.539
1.882
1.874
1.867
1.860
1.457
1.452
1.430
1.422
1.408
1.384

----- PROCESSING PARAMETERS -----
sexp(0.3[Hz], 0.0[s])
trapzoid(0[%], 0[%], 80[%], 100[%])
zerofill(4)
fft(1, TRUE, TRUE)
machinephase
ppm
auto_reference(5[%], TRUE)

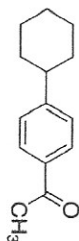
Instrument = NMR-400MHz (JEOL)
Instrument id = NMR-01
Author = svr1402
Reviewed by = Ramesh Yadav
Solvent = CHLOROFORM-D
Spectrometer = JNM-ECZ400S/11
Experiment = proton.jxp

Acquisition Parameter
X_Domain = Proton
X_Offset = 7[ppm]
X_Sweep = 9.00576369[kHz]
Scans = 16
Relaxation_Delay = 2[s]





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Lot No.: 1907288

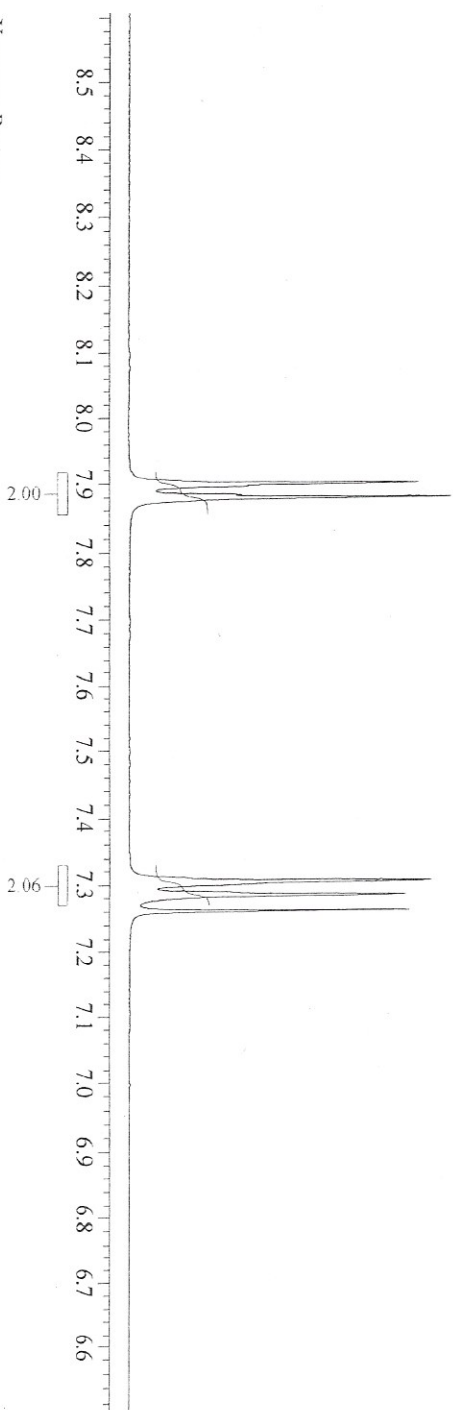
7 900
7 895
7 883
7 879

7 305
7 285

----- PROCESSING PARAMETERS -----
sexp(0.31Hz, 0.01s)
trapzoid(01%, 01%, 801%, 1001%)
zerofill(4)
fft(1, TRUE, TRUE)
machinephase
ppm
auto_reference(51%, TRUE)

Instrument - NMR-400MHz (JEOL)
Instrument id - NMR-01
Author - svr1402
Reviewed by - Ramesh Yadav
Solvent - CHLOROFORM-D
Spectrometer - JNM-ECZ400S/1L
Experiment - proton.jxp

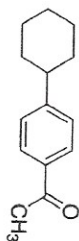
Acquisition Parameter
X Domain = Proton
X Offset = 71ppm
X Sweep = 9.0056369 [kHz]
Scans = 16
Relaxation_Delay = 2[s]



X : ppm : Proton



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2.580
2.568
2.560
2.547
2.539

1.882
1.874
1.867
1.860
1.789
1.786
1.782
1.755
1.751

1.487
1.457
1.452
1.430
1.422
1.408
1.390
1.384
1.376
1.354
1.347
1.310
1.287
1.279
1.271
1.255
1.247

```
----- PROCESSING PARAMETERS -----  
sexp ( 0.3 [Hz], 0.0 [s] )  
trapezoid ( 0 [s], 0 [s], 80 [%], 100 [%] )  
zerofill ( 4 )  
fft ( 1, TRUE, TRUE )  
machinephase  
ppm  
auto_reference ( 5 [s], TRUE )
```

```
Instrument      = NMR-400MHz (JEOL)  
Instrument id   = NMR-01  
Author         = svr1402  
Reviewed by    = Ramesh Yadav  
Solvent        = CHLOROFORM-D  
Spectrometer   = JNM-ECZ400S/11  
Experiment     = proton.jxp
```

```
Acquisition Parameter  
X_Domain       = Proton  
X_Offset       = 7 [ppm]  
X_Sweep        = 9.00576369 [kHz]  
Scans          = 16  
Relaxation_Delay = 2 [s]
```

