



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: 19-1440

Product Name: (2-BENZYLOXYCARBONYLMETHOXYETHOXY)
ACETIC ACID

Lot Number: 1709873

Chemical Formula: C₁₃H₁₆O₆

Molecular Weight: 268.27

Appearance: Pale yellow liquid

Moisture(KF): 0.30%

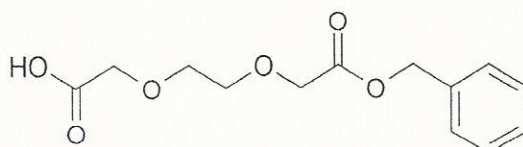
TLC: Chloroform:Methanol (8:2)

Solubility: Soluble in chloroform

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.10%





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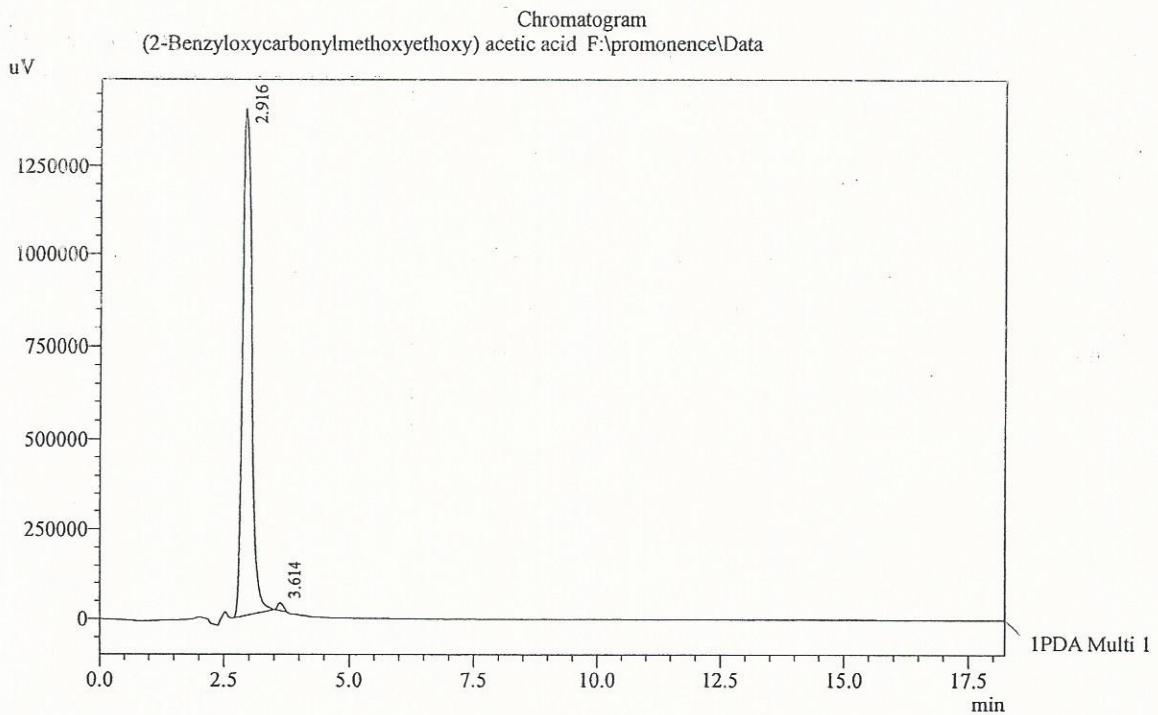
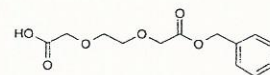
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HPLC ANALYSIS

Acquired by : Admin
Sample Name : (2-Benzyloxycarbonylmethoxyethoxy) acetic acid
Sample ID : 10 gm LOT-Sept-2017
Injection Volume : 20 uL
Data Filename : 110917B.lcd
Method Filename : Linear Isocratic.M.lcm
Report Filename : Default.lcr

Catalog No.: 19-1440
Product Name: (2-Benzyloxycarbonylmethoxyethoxy)
acetic acid
Lot No.: 1709873



PeakTable

PDA Ch1 210nm 4nm

Peak#	Name	Ret. Time	Height	Area %	Relative Retention Time
1	RT:2.916	2.916	1399426	99.10	1.00
2	RT:3.614	3.614	21953	0.90	1.24
Total			1421378	100.00	

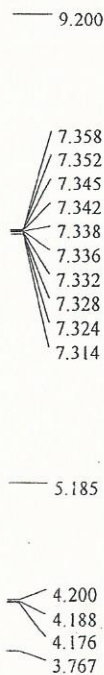


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 HILLSBOROUGH, NJ 08844



Catalog No.: 19-1440
 Product Name: (2-Benzoyloxyacetyl)methoxyethoxy
 acetic acid
 Lot No.: 1709873

3,6-DOABE-16gr_proton-1-2.jdf
 045440-17



```

----- PROCESSING PARAMETERS -----
sepf( 0.31Hz), 0.0[s] )
trapzoid( 0[%], 0[%], 80[%], 100[%] )
zerofill( 4 )
fft( 1, TRUE, TRUE )
machinephase
pvm
auto_reference( 5[%], TRUE )
  
```

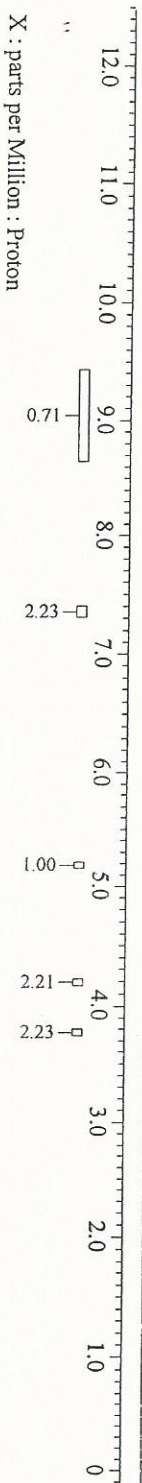
Derived from: 3,6-DOABE-16gr_proton-1-1.jdf

```

Filename           = 3,6-DOABE-16gr_proton-1-2.
Instrument          = NMR-500MHz (JEOL)
Instrument Id       = NMR-02
Author             = rrajul338
Reviewed by        = purushotham
Solvent            = CHLOROFORM-D
Spectrometer       = JNM-ECZ500R/S1
Experiment         = proton.jxp
  
```

```

Acquisition Parameter
X_Domain           = 1H
X_Offset          = 7.0[ppm]
X_Sweep           = 11.28158845[KHz]
Scans             = 16
Relaxation_Delay  = 2[s]
  
```



X : parts per Million : Proton



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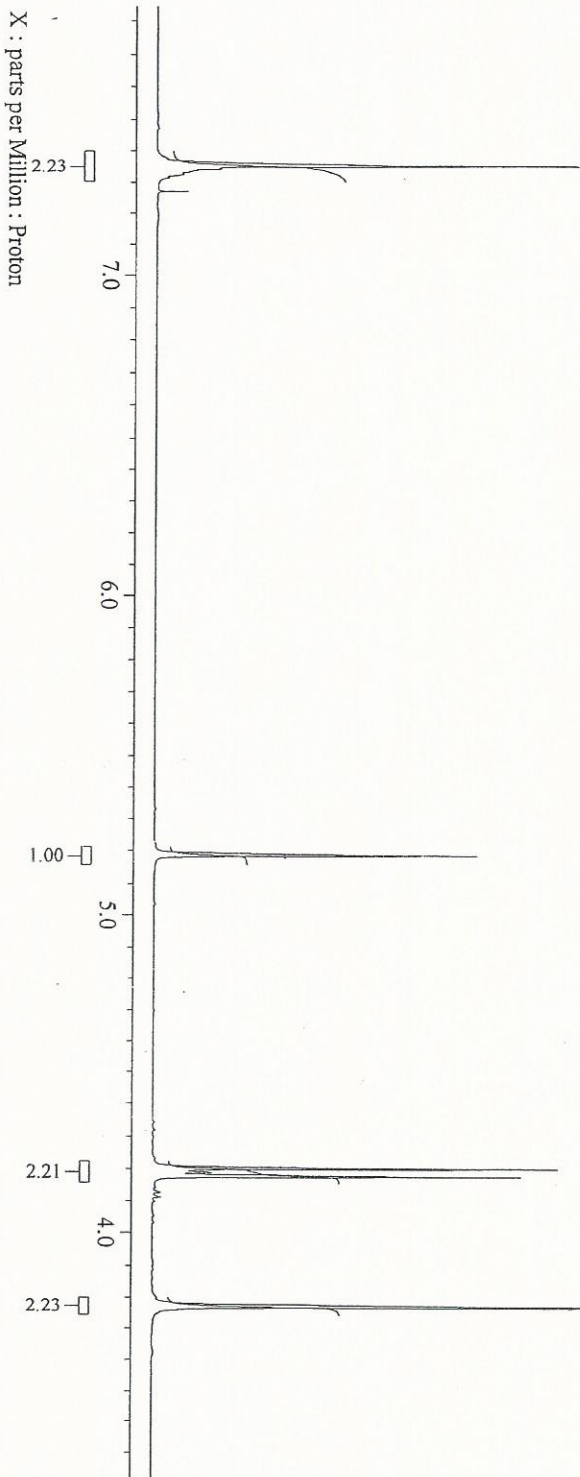


Catalog No.: 19-1440
 Product Name: (2-Benzoyloxycarbonylmethoxyethoxy) acetic acid
 Lot No.: 1709873

3,6-DOABE-16gr_proton-1-2.jdf
 045440-17

7.377
 7.358
 7.352
 7.345
 7.342
 7.338
 7.336
 7.332
 7.328
 7.324
 7.314

5.185
 4.200
 4.188
 4.176
 3.767



```

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

Derived from: 3,6-DOABE-16gr_proton-1-1.jdf

```

Filename      = 3,6-DOABE-16gr_proton-1-2.
Instrument     = NMR-500MHz (JBO1)
Instrument id  = NMR-02
Author        = rraju1338
Reviewed by   = Purushotham
Solvent       = CHLOROFORM-D
Spectrometer  = JNM-ECZ500R/SI
Experiment    = proton_3xp
  
```

```

Acquisition Parameter
X Domain           = 1H
X Offset           = 7.01ppm]
X Sweep           = 11.28158645[kHz]
Scans              = 16
Relaxation_Delay  = 2[s]
  
```