



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

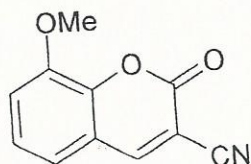
Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

<u>Catalog Number:</u>	19-667
<u>Product Name:</u>	3-CYANO-8-METHOXYCOUMARIN
<u>Lot Number:</u>	0312201
<u>Chemical Formula:</u>	C ₁₁ H ₇ NO ₃
<u>Molecular Weight:</u>	201.19
<u>Melting Point:</u>	228-231°C
<u>Appearance:</u>	Dark yellow powder
<u>TLC:</u>	Chloroform: Methanol (9.5:0.5)
<u>Solubility:</u>	Clear solution in DMSO
<u>NMR Spectrum:</u>	Enclosed (Conforms to the structure)
<u>Storage:</u>	Store in a cool, dry place
<u>Purity (HPLC):</u>	99.52%





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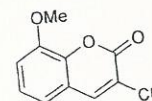
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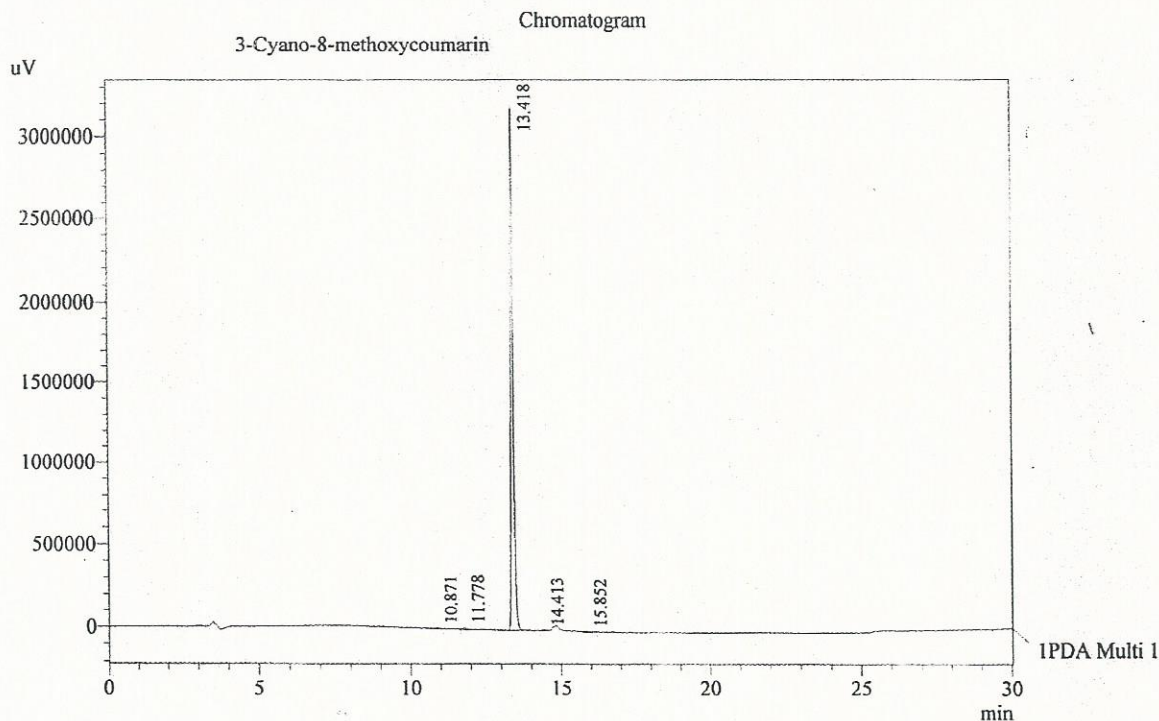
HPLC ANALYSIS

Acquired by : Sanjeev
Sample Name : 3-Cyano-8-methoxycoumarin
Sample ID : Lot No: 0312201
Injection Volume : 20 uL
Data Filename : 011214L.lcd
Method Filename : Linear Gradient.M.lcm

Catalog No.: 19-667
Product Name: 3-Cyano-8-methoxycoumarin
Lot No.: 0312201



Column : Gemini C18 (250mm x4.6mm 5.0µ)
Flow : 1.000 mL/min.
Mobile Phase : A(0.05% of 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 IPDA Multi 1 / 225nm 4nm

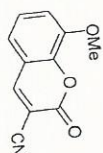
PeakTable

PDA Ch1 225nm 4nm

Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1	RT:10.871	10.871	9537	0.05	0.81
2	RT:11.778	11.778	57205	0.30	0.88
3	3-CN-8-methoxycoumarin	13.418	19216165	99.52	1.00
4	RT:14.413	14.413	17635	0.09	1.07
5	RT:15.852	15.852	7879	0.04	1.18
Total			19308421	100.00	



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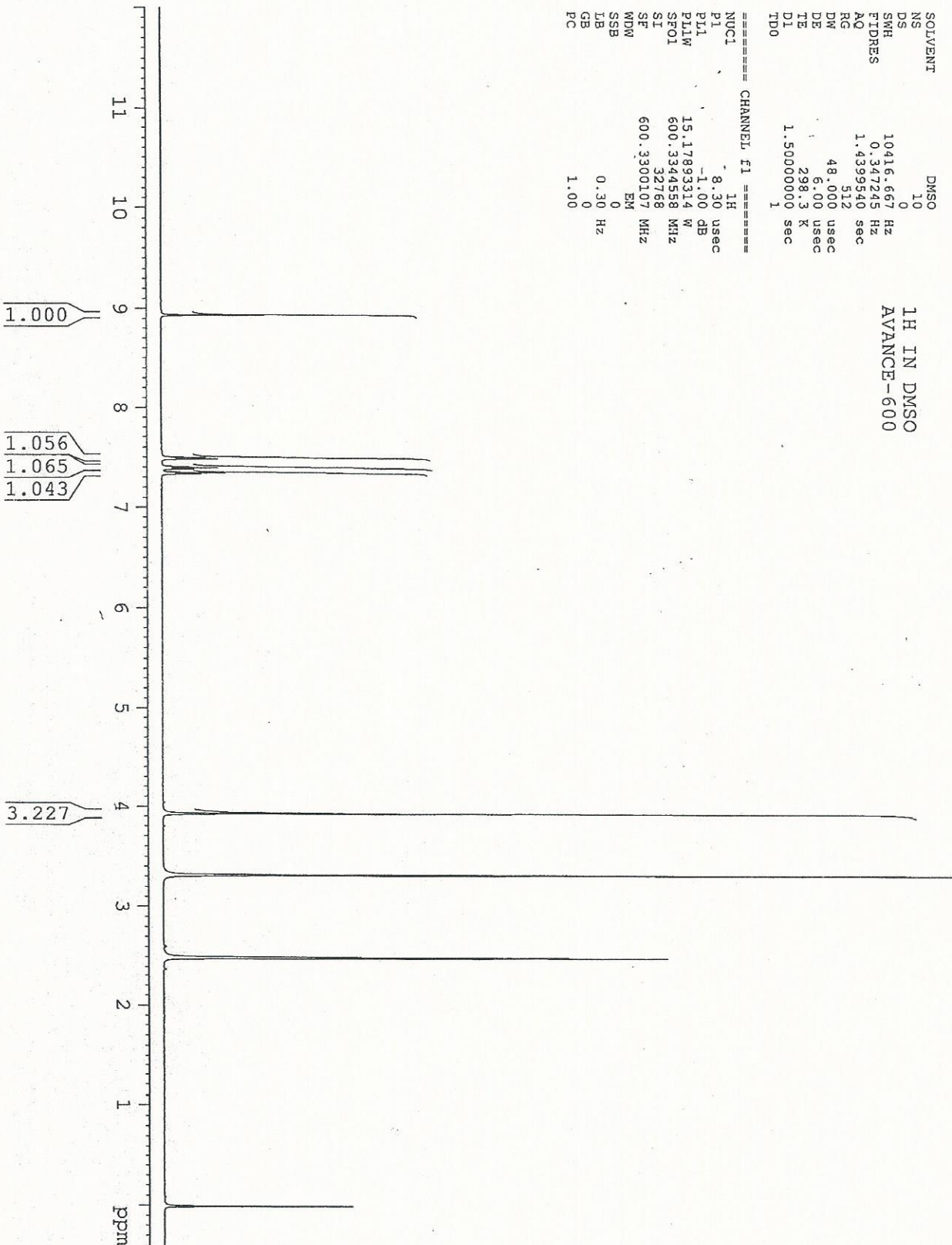


Catalog No.: 19-667
Product Name: 3-Cyano-8-methoxycoumarin
Lot No.: 0312201

1H IN DMSO
ADVANCE-600

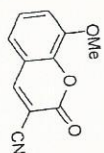
SOLVENT	DMSO
NS	10
DS	0
SMH	10416.667 Hz
FIDRES	0.347245 Hz
AQ	1.4399540 sec
RG	912
DW	48.000 usec
DE	6.00 usec
TE	298.3 K
D1	1.50000000 sec
TD0	1

==== CHANNEL F1 =====
NUC1 1H
P1 8.30 usec
PL1 -1.00 dB
PL1W 15.17893314 W
SFO1 600.3344558 MHz
SI 32768
SF 600.3300107 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





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Catalog No.: 19-667
Product Name: 3-Cyano-8-methoxycoumarin
Lot No.: 0312201

SOLVENT DMSO
NS 10
DS 0
SMH 10416.667 Hz
FIDRES 0.347245 Hz
AQ 1.4399540 sec
RG 512
DW 48.000 usec
DE 6.00 usec
TE 298.3 K
DI 1.50000000 sec
ID0 1

1H IN DMSO
AVANCE-600

===== CHANNEL F1 =====
NUC1 1H
P1 8.30 usec
PL1 -1.00 dB
PL1W 15.17893314 W
SFO1 600.3344558 MHz
SI 32768
SF 600.3300107 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

