



# 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](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## CERTIFICATE OF ANALYSIS

Cat No.: 19-415

Product: **6-CHLORO-7-HYDROXYCOUMARIN**

Lot Number: 0109092

Chemical Formula:  $C_9H_5ClO_3$

Molecular Weight: 196.59

Melting Point: 275-277.3°C

Appearance: Off white fluffy powder

Solubility: Soluble in DMF

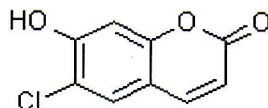
TLC: Chloroform:methanol (9.5:0.5)

NMR Spectrum: Enclosed

I.R. Spectrum: Enclosed

Storage: Cool dry place

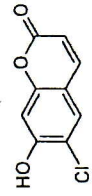
Purity: 98+%



19-415

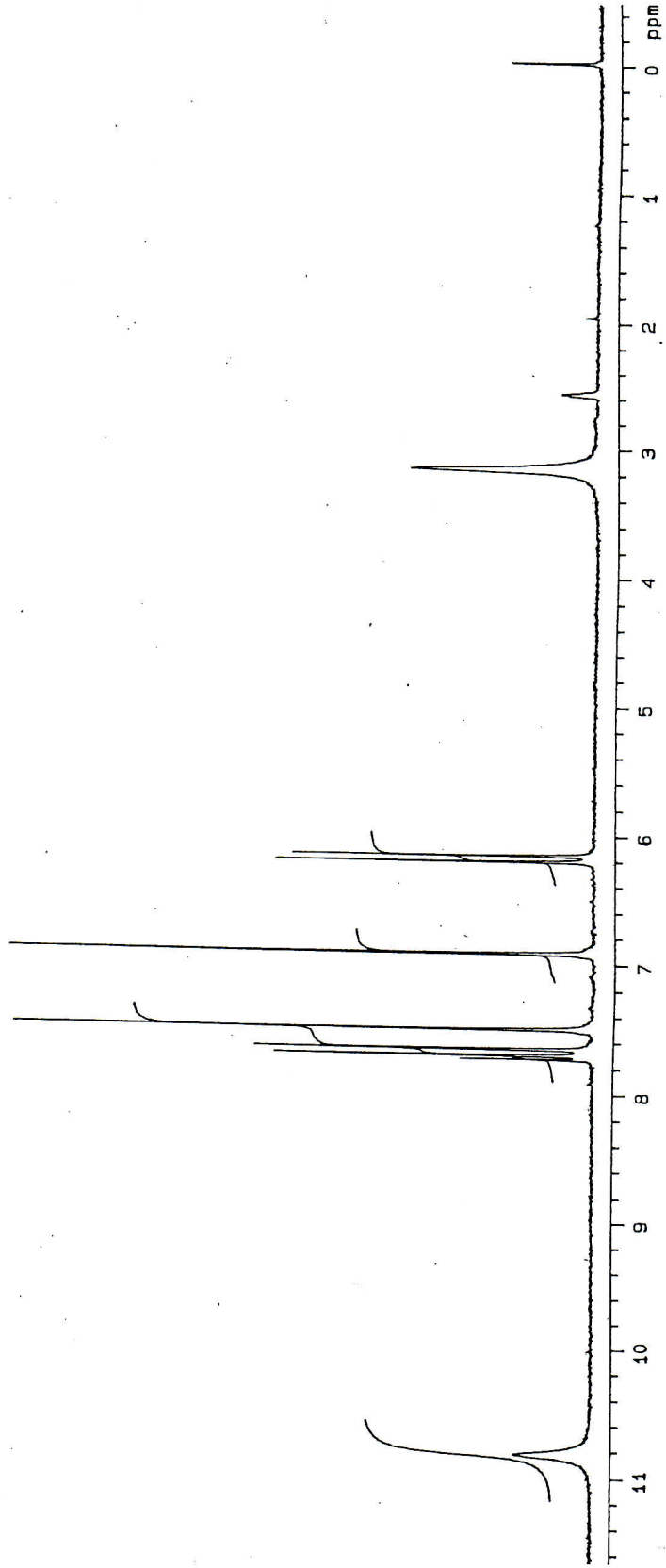


**INDOFINE Chemical Company, Inc.**  
121 STRYKER LANE  
BLDG. 30, SUITE 1  
HILLSBOROUGH, NJ 08844



Catalog No.: 19-415  
Product name: 6-Chloro-7-hydroxycoumarin  
Lot No.: 0109092

NO-4 (NEW)  
CDCL<sub>3</sub>+DMSO-D6  
Pulse Sequence: s2pul





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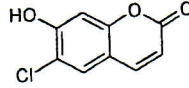
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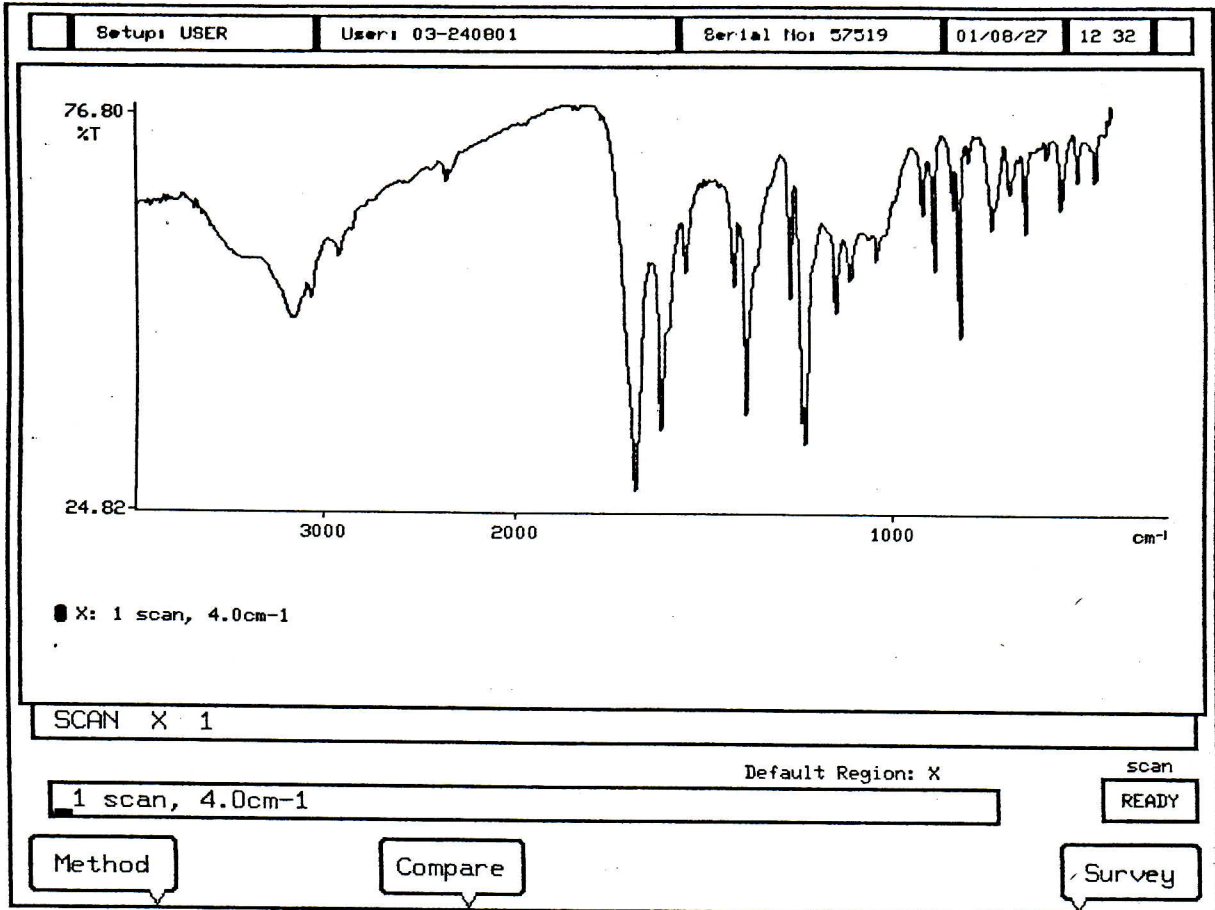
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USER 03-240801  
SCAN X 1  
1 scan, 4.0cm-1  
SCAN X 1  
1 scan, 4.0cm-1



Catalog No.: 19-415  
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PEAKTABLE X 3965.0 400.0  
 PEAKTABLE X 3965.0 400.0  
 threshold 2.00%; base

cm-1	%	cm-1	%	cm-1	%	cm-1	%
3740.1	66.39	3090.1	54.44	2981.9	60.33	2390.2	70.54
1865.8	78.35	1643.9	57.73	1567.2	62.99	1504.5	68.44
1414.7	62.62	1295.9	71.40	1263.6	68.03	1241.0	39.14
1188.6	62.35	1132.8	60.30	1085.4	61.18	942.1	72.48
902.8	70.77	862.9	74.07	831.4	70.44	800.2	72.84
764.5	74.19	696.0	72.73	650.8	71.50	588.7	73.32
562.0	73.66	510.9	74.26	481.9	73.43	406.8	78.32

28 peaks found