

**ICC** **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**

Catalog Number: 19-154

Product Name: **SUMARESINOLIC ACID**  
(3 $\beta$ -6 $\beta$ -Dihydroxy olean-12-en-28-oic acid)

CAS Number: [559-64-8]

Lot Number: 1110170

Chemical Formula: C<sub>30</sub>H<sub>48</sub>O<sub>4</sub>

Molecular Weight: 472.71

Melting Point:  $\geq 280^{\circ}\text{C}$

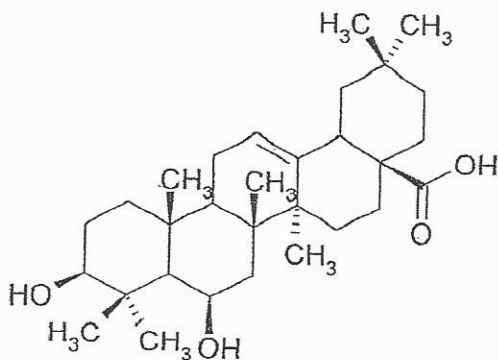
Appearance: Pale yellow powder

TLC: Hexane: Ethyl acetate (6:4)

Solubility: Soluble in chloroform

NMR Spectrum: Enclosed

Storage: Store in a cool, dry place





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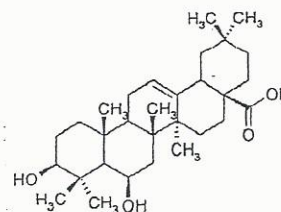
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Catalog no.: 19-154  
Product name: Sumaresinolic acid  
Lot No.: 1110170

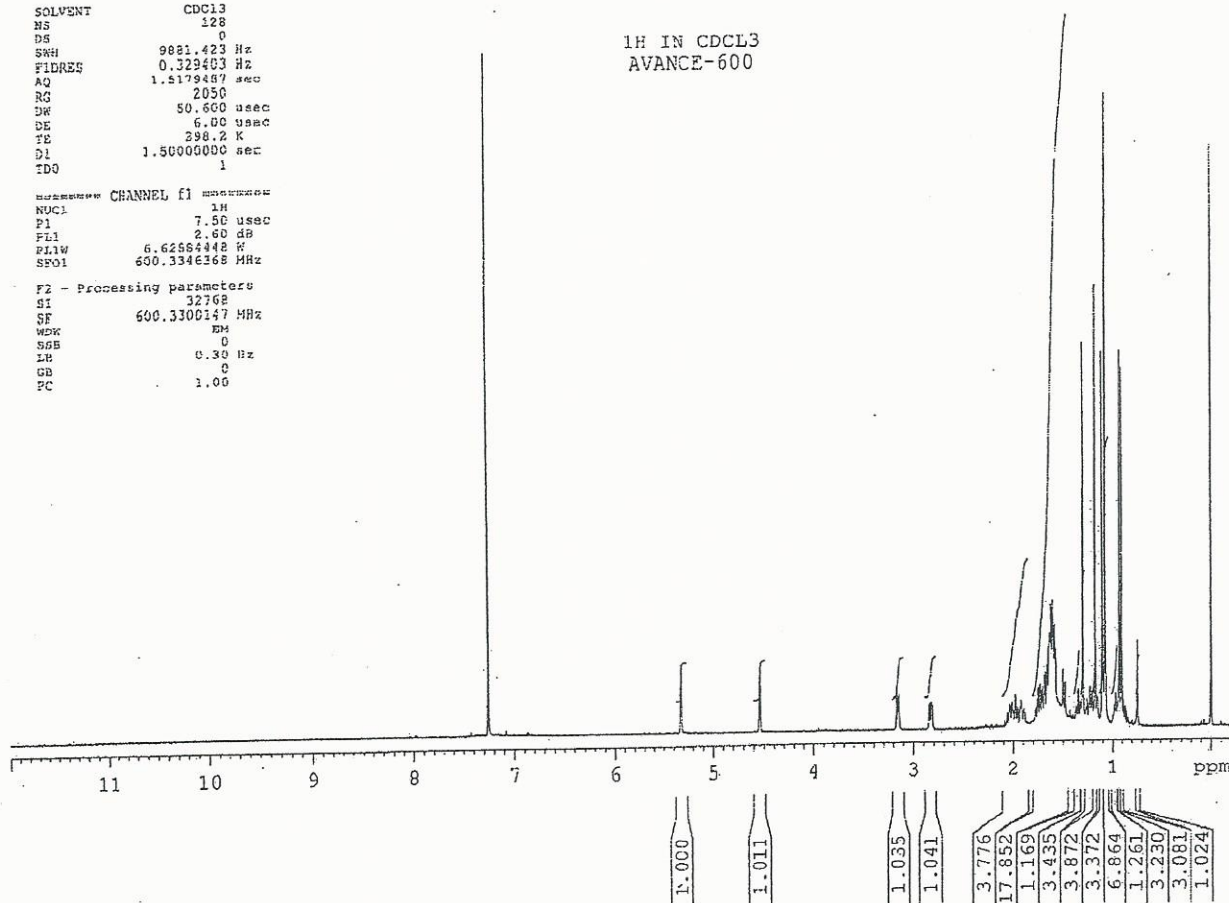


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DS 0  
SWH 9881.423 Hz  
FIDRES 0.329483 Hz  
AQ 1.5179487 sec  
RG 2050  
DW 50.600 usec  
DE 6.00 usec  
TE 298.2 K  
D1 1.5000000 sec  
TD0 1

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
NUC1 1H  
P1 7.50 usec  
PL1 2.60 dB  
PL1W 6.6268448 W  
SFO1 600.3346368 MHz

F2 - Processing parameters  
SI 32768  
SF 600.3300147 MHz  
WDW EM  
SSB 0  
EB 0.30 Hz  
GB 0  
PC 1.00

1H IN CDCL3  
AVANCE-600





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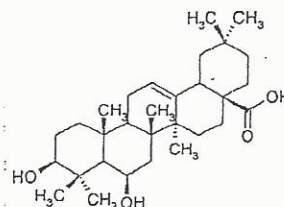
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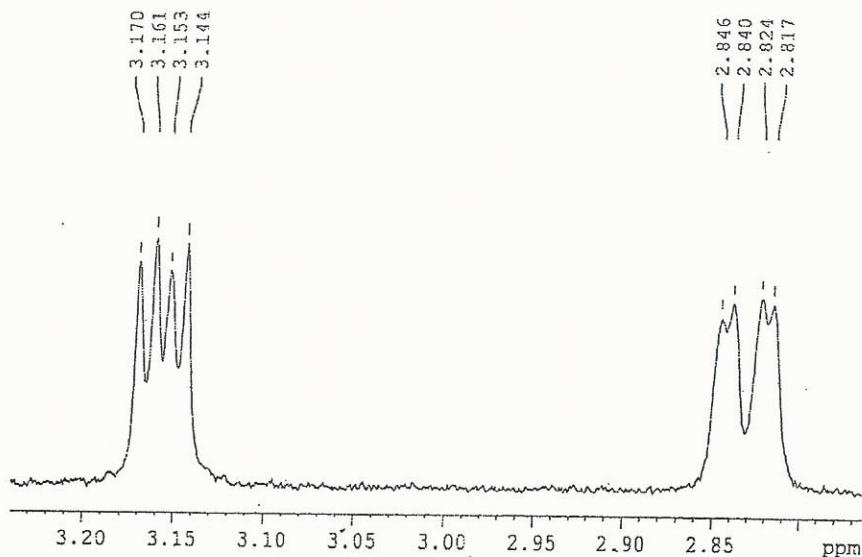


SOLVENT CDCl3  
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DS 0  
SWH 9881.423 Hz  
FIDRES 0.329403 Hz  
AQ 1.5179487 sec  
RG 2050  
DW 50.600 usec  
DE 6.00 usec  
TE 296.2 K  
GI 1.50000000 sec  
TDC 1

1H IN CDCl3  
AVANCE-600

NAME OF CHANNEL CHANNEL F1  
NUC1 1H  
P1 7.50 usec  
PL1 2.00 dB  
PL1W 6.62584448 W  
SFO1 600.3346368 MHz

F2 - Processing parameters  
SI 32768  
SF 600.3300147 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 8  
PC 1.00





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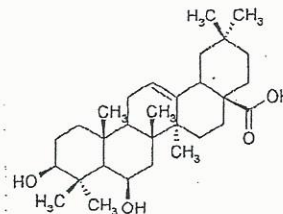
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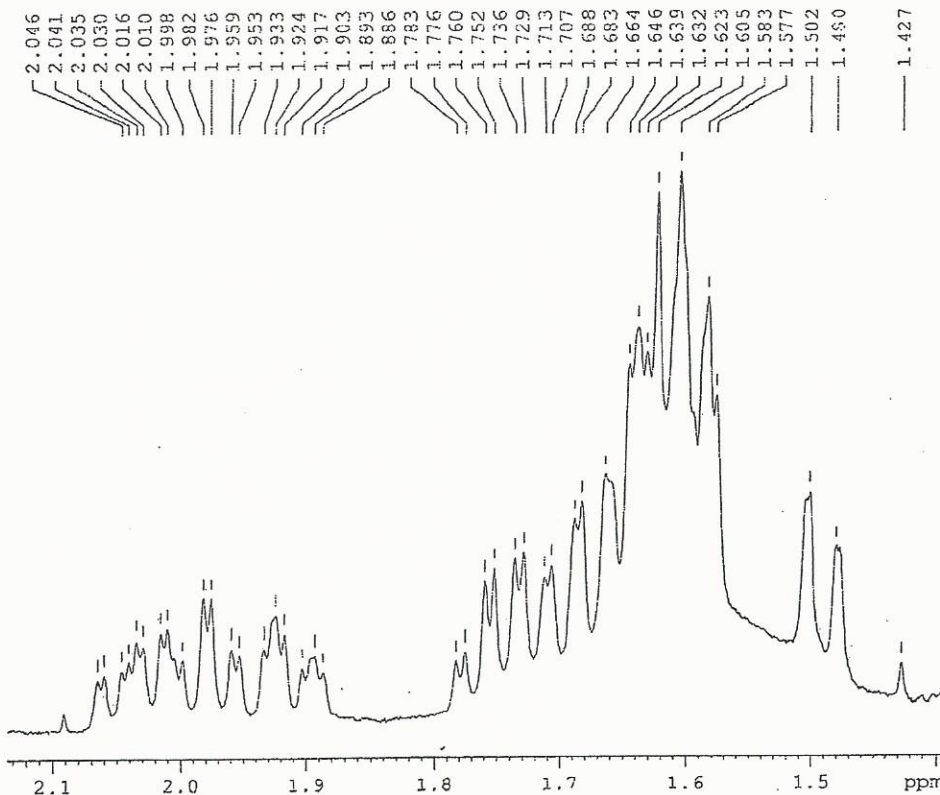


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DE 6.00 usec  
TE 298.2 K  
D1 1.50000000 sec  
FDC 1

1H IN CDCl3  
AVANCE-600

CHANNEL f3  
NUC1 1H  
P1 7.50 usec  
PL1 2.60 dB  
PL1W 6.62584488 W  
SFO1 600.3346368 MHz

F2 - Processing parameters  
SI 32768  
SF 600.3360147 MHz  
WDW EM  
SSB 0  
LR 0.30 Hz  
GB 0  
PC 1.00





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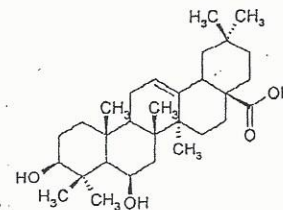
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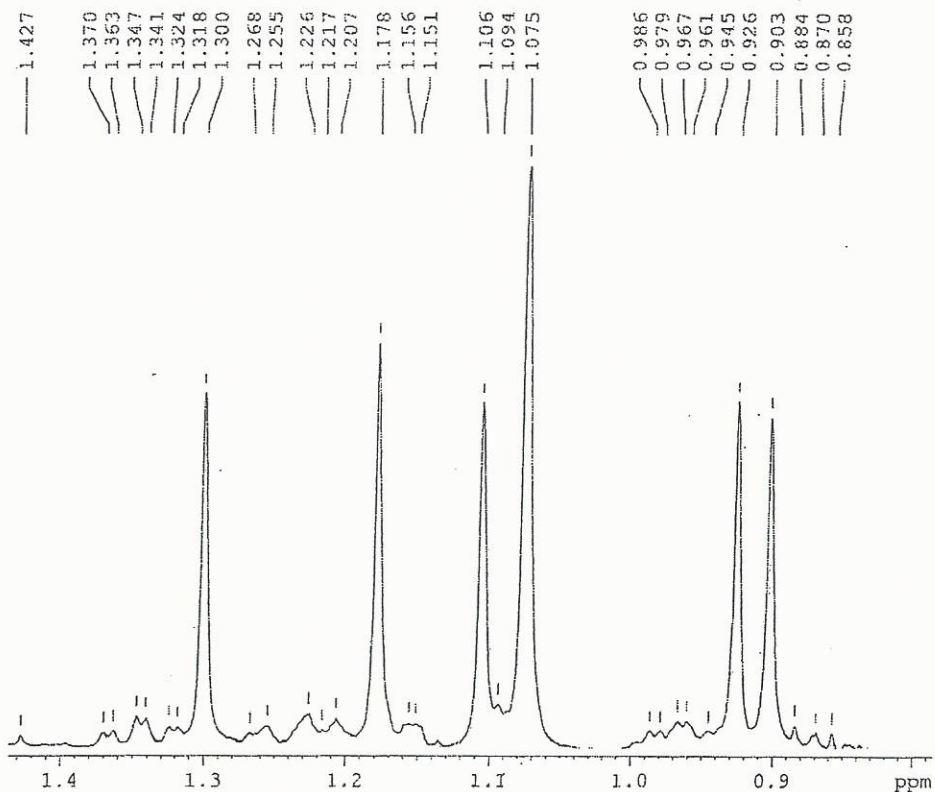
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F2 - Processing parameters  
SI 32768  
SF 600.3300147 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.05