



>>>Derivative: 1-(3-Methylbutanoyl), 3-Ac, Me ester

Synonym(s): Salannol acetate

CAS Registry Number: 120462-58-0

Molecular Formula: $C_{34}H_{46}O_9$

Molecular Weight: 598.732

Accurate Mass: 598.314185

Percentage Composition: C 68.21%; H 7.74%; O 24.05%

Physical Description: Gum

Optical Rotation: $[\alpha]_D +118$ ($CHCl_3$)

>>>Derivative: 1-(3-Methyl-2-butenoyl), Me ester

Synonym(s): 2',3'-Dehydrosalannol

CAS Registry Number: 97411-50-2

Molecular Formula: $C_{32}H_{42}O_8$

Molecular Weight: 554.679

Accurate Mass: 554.28797

Percentage Composition: C 69.29%; H 7.63%; O 23.08%

Biological Source: Constit. of *Azadirachta indica*

Physical Description: Fine needles ($MeOH/Et_2O$)

Melting Point: Mp 183-185°

Optical Rotation: $[\alpha]_D +180$

>>>Derivative: 3-Deoxy, Me ester

Synonym(s): 3-Deoxymethylnimbidate. Methyl 3-deoxynimbidate

CAS Registry Number: 209912-14-1

Molecular Formula: $C_{27}H_{36}O_6$

Molecular Weight: 456.578

Accurate Mass: 456.25119

Percentage Composition: C 71.03%; H 7.95%; O 21.03%

Biological Source: Constit. of *Azadirachta excelsa*

Physical Description: Gum

Optical Rotation: $[\alpha]_D^{25} -9.2$ (c, 0.2 in $CHCl_3$)

References:

- Henderson, R. *et al.*, *Tetrahedron*, 1968, **24**, 1525-1528, (*Salannin*)
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Kraus, W. *et al.*, *Annalen*, 1981, 181-189, (*Salannol, 3-Deacetylsalannin*)
Purushothaman, K.K. *et al.*, *Phytochemistry*, 1984, **23**, 135-137, (*Salannin*)
Garg, H. *et al.*, *Phytochemistry*, 1985, **24**, 866-867, (*Dehydrosalannol*)
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Nakatani, M. *et al.*, *Phytochemistry*, 1996, **41**, 739, (*Salannin, pmr*)
Cui, B. *et al.*, *Phytochemistry*, 1998, **47**, 1283-1287, (*3-Deoxymethylnimbidate*)
Kabaleeswaran, V. *et al.*, *Acta Cryst. C*, 1999, **55**, 1952-1955, (*Salannin, cryst struct*)
Kraus, W. *et al.*, *The Neem Tree*, (ed. Schmutterer, H.), VCH, 1995, 36, (*rev*)