



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

Synonym(s): Salannol acetate

CAS Registry Number: 120462-58-0

Molecular Formula: C<sub>34</sub>H<sub>46</sub>O<sub>9</sub>

Molecular Weight: 598.732

Accurate Mass: 598.314185

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

Physical Description: Gum

Optical Rotation: [α]<sub>D</sub> +118 (CHCl<sub>3</sub>)

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

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

CAS Registry Number: 97411-50-2

Molecular Formula: C<sub>32</sub>H<sub>42</sub>O<sub>8</sub>

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<sub>2</sub>O)

Melting Point: Mp 183-185°

Optical Rotation: [α]<sub>D</sub> +180

>>>Derivative: 3-Deoxy, Me ester

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

CAS Registry Number: 209912-14-1

Molecular Formula: C<sub>27</sub>H<sub>36</sub>O<sub>6</sub>

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: [α]<sub>D</sub><sup>25</sup> -9.2 (c, 0.2 in CHCl<sub>3</sub>)

#### References:

- Henderson, R. *et al.*, *Tetrahedron*, 1968, **24**, 1525-1528, (*Salannin*)  
de Silva, L.B. *et al.*, *Phytochemistry*, 1969, **8**, 1817-1819, (*Salannin*)  
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Garg, H. *et al.*, *Phytochemistry*, 1985, **24**, 866-867, (*Dehydrosalannol*)  
Rojatkar, S.R. *et al.*, *Phytochemistry*, 1989, **28**, 203-205, (*Salannol acetate*)  
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*)