



**Accurate Mass:** 400.26136  
**Percentage Composition:** C 74.96%; H 9.06%; O 15.98%  
**Biological Source:** From *Smallanthus uvedalia*  
**Physical Description:** Oil (as Me ester) (not pure)

>>**Derivative:** 19-Carboxylic acid, 3-(3-methylbutanoyl)

**CAS Registry Number:** 74635-55-5

**Molecular Formula:** C<sub>25</sub>H<sub>38</sub>O<sub>4</sub>  
**Molecular Weight:** 402.573  
**Accurate Mass:** 402.27701  
**Percentage Composition:** C 74.59%; H 9.51%; O 15.90%  
**Biological Source:** From *Smallanthus uvedalia*  
**Physical Description:** Oil (as Me ester) (not pure)  
**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>24</sup> -39 (c, 0.2 in CHCl<sub>3</sub>)

>>**Derivative:** 19-Carboxylic acid, 3-cinnamoyl

**CAS Registry Number:** 79406-10-3

**Molecular Formula:** C<sub>29</sub>H<sub>36</sub>O<sub>4</sub>  
**Molecular Weight:** 448.601  
**Accurate Mass:** 448.26136  
**Percentage Composition:** C 77.65%; H 8.09%; O 14.27%  
**Biological Source:** Isol. from *Wedelia trilobata* and *Wedelia prostrata*  
**Physical Description:** Cryst.  
**Melting Point:** Mp 53-55°  
**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> -129 (c, 0.02 in CHCl<sub>3</sub>)

>>**Variant:** (*ent*-3 $\alpha$ )-form

**Molecular Formula:** C<sub>20</sub>H<sub>32</sub>O<sub>2</sub>  
**Molecular Weight:** 304.472  
**Accurate Mass:** 304.24023  
**Percentage Composition:** C 78.90%; H 10.59%; O 10.51%

>>**Derivative:** 19-Carboxylic acid, 3-Ac

**CAS Registry Number:** 66673-14-1

**Biological Source:** From *Helichrysum heterolasium*

>>**Derivative:** 19-Carboxylic acid, 3-(3-methyl-2-butenoyl)

**CAS Registry Number:** 64086-30-2

**Biological Source:** From *Wedelia* spp.  
**Physical Description:** Oil (as Me ester)

#### References:

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Lloyd, H.A. *et al.*, *Tet. Lett.*, 1967, 4891, (*isol*)  
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Lunnon, M.W. *et al.*, *J.C.S. Perkin I*, 1977, 2317, (*synth*)  
Bohlmann, F. *et al.*, *Phytochemistry*, 1977, **16**, 579; 1978, **17**, 1173; 1917-1922; 1980, **19**, 107, (*isol, pmr*)  
Piozzi, F. *et al.*, *Phytochemistry*, 1980, **19**, 1237-1238, (*isol*)  
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