



**Molecular Formula:** C<sub>20</sub>H<sub>26</sub>O<sub>7</sub>  
**Molecular Weight:** 378.421  
**Accurate Mass:** 378.167855  
**Percentage Composition:** C 63.48%; H 6.92%; O 29.60%  
**Biological Source:** Constit. of *Eupatorium mikanioides*  
**Physical Description:** Cryst. (CHCl<sub>3</sub>/MeOH)  
**Melting Point:** Mp 170-172°  
**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +97.8 (c, 0.027 in Py)

>>Derivative: 8-(3*S*-Hydroxy-2-methylenebutanoyl)

**CAS Registry Number:** 72229-37-9

**Molecular Formula:** C<sub>20</sub>H<sub>26</sub>O<sub>6</sub>  
**Molecular Weight:** 362.422  
**Accurate Mass:** 362.17294  
**Percentage Composition:** C 66.28%; H 7.23%; O 26.49%  
**Biological Source:** Constit. of *Eupatorium mikanioides*  
**Physical Description:** Gum  
**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +80.5 (c, 0.23 in CHCl<sub>3</sub>)

>>Derivative: 8-(2,3-Dihydroxy-2-hydroxymethylbutanoyl)

**CAS Registry Number:** 101470-78-4

**Molecular Formula:** C<sub>20</sub>H<sub>28</sub>O<sub>8</sub>  
**Molecular Weight:** 396.436  
**Accurate Mass:** 396.17842  
**Percentage Composition:** C 60.59%; H 7.12%; O 32.29%  
**Biological Source:** Constit. of *Helianthus resinosus*  
**Melting Point:** Mp 166-168°

>>Derivative: 8-(2*S*-Hydroxy-2-hydroxymethyl-3*S*-mercaptobutanoyl)

**CAS Registry Number:** 72229-36-8

**Molecular Formula:** C<sub>20</sub>H<sub>28</sub>O<sub>7</sub>S  
**Molecular Weight:** 412.503  
**Accurate Mass:** 412.155575  
**Percentage Composition:** C 58.23%; H 6.84%; O 27.15%; S 7.77%  
**Biological Source:** Constit. of *Eupatorium mikanioides*  
**Physical Description:** Cryst. (CHCl<sub>3</sub>/MeOH)  
**Melting Point:** Mp 180-181°  
**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +102 (c, 0.02 in Py)

>>Derivative: 8-(2-Hydroxymethyl-2*Z*-butenoyl)

**Synonym(s):** Deacetylepaserrin

**CAS Registry Number:** 38456-39-2

**Molecular Formula:** C<sub>20</sub>H<sub>26</sub>O<sub>6</sub>  
**Molecular Weight:** 362.422  
**Accurate Mass:** 362.17294  
**Percentage Composition:** C 66.28%; H 7.23%; O 26.49%  
**Biological Source:** Constit. of *Eupatorium mikanioides* and *Eupatorium semiserratum*  
**Use/Importance:** Antineoplastic agent  
**Physical Description:** Cryst. (EtOAc/hexane) (also descr. as unstable amorph. foam)  
**Melting Point:** Mp 132-135°  
**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>25</sup> +75 (c, 0.9 in MeOH)  
**Calculated Log P Data:** Log P 0.48 (calc)  
**UV:** [neutral]  $\lambda_{\max}$  0 (end) ( $\epsilon$  23200) (EtOH) (Derep)