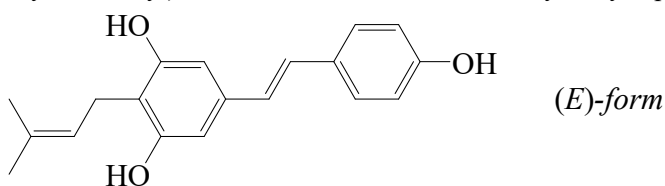




>>Entry Name: Arachidin II

ENTRY UNDER REVIEW

Synonym(s): 5-[2-(4-Hydroxyphenyl)ethenyl]-2-(3-methyl-2-butenyl)-1,3-benzenediol, 9Cl. 3,4',5-Trihydroxy-4-prenylstilbene



CAS Registry Number: 79147-72-1

Molecular Formula: C<sub>19</sub>H<sub>20</sub>O<sub>3</sub>

Molecular Weight: 296.365

Accurate Mass: 296.141245

Percentage Composition: C 77.00%; H 6.80%; O 16.20%

>>Variant: (E)-form

CAS Registry Number: 61517-87-1

Molecular Formula: C<sub>19</sub>H<sub>20</sub>O<sub>3</sub>

Molecular Weight: 296.365

Accurate Mass: 296.141245

Percentage Composition: C 77.00%; H 6.80%; O 16.20%

Biological Source: Constit. of peanuts (*Arachis hypogaea*)

Biological Use/Importance: Phytoalexin

Physical Description: Yellow oil

>>Derivative: 3,5-Di-Me ether

Synonym(s): 4'-Hydroxy-3,5-dimethoxy-4-prenylstilbene

Molecular Formula: C<sub>21</sub>H<sub>24</sub>O<sub>3</sub>

Molecular Weight: 324.419

Accurate Mass: 324.172545

Percentage Composition: C 77.75%; H 7.46%; O 14.80%

Biological Source: Constit. of the roots of *Deguelia hatschbachii*

Physical Description: Yellowish oil

UV: [neutral] λ<sub>max</sub> 313 (log ε 4.2); 325 (log ε 4.21) (MeOH)

>>Derivative: Tri-Me ether

Synonym(s): 3,4',5-Trimethoxy-4-prenylstilbene

CAS Registry Number: 56866-27-4

Molecular Formula: C<sub>22</sub>H<sub>26</sub>O<sub>3</sub>

Molecular Weight: 338.446

Accurate Mass: 338.188195

Percentage Composition: C 78.08%; H 7.74%; O 14.18%

Biological Source: Isol. from *Derris floribunda*

Physical Description: Cryst.

Melting Point: Mp 92-94°

>>Derivative: 2'-Hydroxy

Synonym(s): 2',3,4',5-Tetrahydroxy-4-prenylstilbene

CAS Registry Number: 69065-16-3

Molecular Formula: C<sub>19</sub>H<sub>20</sub>O<sub>4</sub>

Molecular Weight: 312.365

Accurate Mass: 312.13616

Percentage Composition: C 73.06%; H 6.45%; O 20.49%

Biological Source: Constit. of *Artocarpus incisus* and *Morus alba*

Biological Use/Importance: Phytoalexin

Melting Point: Mp 196-197°

UV: [neutral] λ<sub>max</sub> 220 (ε 28100); 240 (sh) (ε 19700); 294 (sh) (ε 21300); 303 (ε 23100); 330 (ε 33100) (EtOH)