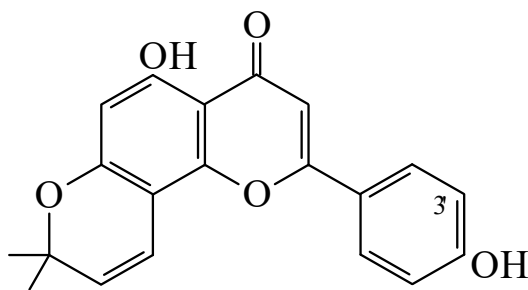




>>Entry Name: Atalantoflavone

Synonym(s): 5-Hydroxy-2-(4-hydroxyphenyl)-8,8-dimethyl-4*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-4-one, 9Cl. Limonianin



CAS Registry Number: 119309-02-3

Molecular Formula: C<sub>20</sub>H<sub>16</sub>O<sub>5</sub>

Molecular Weight: 336.343

Accurate Mass: 336.099775

Percentage Composition: C 71.42%; H 4.79%; O 23.78%

Biological Source: Constit. of *Atalantia racemosa* leaves and *Citrus limon* root bark

Physical Description: Yellow needles (Me<sub>2</sub>CO/hexane)

Melting Point: Mp 289-290° (275-277°)

Other Data: Physical data varies between Atalantoflavone and Limonianin

>>Derivative: Di-Ac

Molecular Formula: C<sub>24</sub>H<sub>20</sub>O<sub>7</sub>

Molecular Weight: 420.418

Accurate Mass: 420.120905

Percentage Composition: C 68.57%; H 4.79%; O 26.64%

Physical Description: Needles (Me<sub>2</sub>CO/petrol)

Melting Point: Mp 230-232° (221-223°)

>>Derivative: Di-Me ether

Molecular Formula: C<sub>22</sub>H<sub>20</sub>O<sub>5</sub>

Molecular Weight: 364.397

Accurate Mass: 364.131075

Percentage Composition: C 72.51%; H 5.53%; O 21.95%

Physical Description: Pale yellow cryst. (Me<sub>2</sub>CO/hexane)

Melting Point: Mp 207-209° (185-188°)

>>Derivative: 3'-Methoxy

Synonym(s): Racemoflavone

CAS Registry Number: 106055-12-3

Molecular Formula: C<sub>21</sub>H<sub>18</sub>O<sub>6</sub>

Molecular Weight: 366.37

Accurate Mass: 366.11034

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

Biological Source: Constit. of *Atalantia racemosa*

Physical Description: Yellow cryst. (Me<sub>2</sub>CO/hexane)

Melting Point: Mp 236-237°

References:

- Banerji, A. *et al.*, *Phytochemistry*, 1988, **27**, 3637, (*isol, struct, synth*)  
Chang, S.-H., *Phytochemistry*, 1990, **29**, 351, (*Limonianin*)  
Subramanian, M. *et al.*, *J. Nat. Prod.*, 1992, **55**, 1213, (*synth*)  
Vijayalakshmi, C.S. *et al.*, *Z. Naturforsch., B*, 1992, **47**, 1021, (*synth*)  
Prasad, K.J.R. *et al.*, *J. Nat. Prod.*, 1993, **56**, 208, (*synth*)