



>>Entry Name: 7,8-Dihydroxyflavone

Synonym(s): 7,8-Dihydroxy-2-phenyl-4*H*-1-benzopyran-4-one, 9CI

CAS Registry Number: 38183-03-8

Molecular Formula: C<sub>15</sub>H<sub>10</sub>O<sub>4</sub>

Molecular Weight: 254.242

Accurate Mass: 254.05791

Percentage Composition: C 70.86%; H 3.96%; O 25.17%

Physical Description: Yellow needles (EtOH aq.)

Melting Point: Mp 246° (239°)

UV: [neutral] λ<sub>max</sub> 276 () (MeOH) (Berdy)

Rare Chemicals Library: S80933-0

Sigma: D2181

>>Derivative: Di-Ac

Molecular Formula: C<sub>19</sub>H<sub>14</sub>O<sub>6</sub>

Molecular Weight: 338.316

Accurate Mass: 338.07904

Percentage Composition: C 67.45%; H 4.17%; O 28.37%

Physical Description: Needles (EtOH)

Melting Point: Mp 201°

>>Derivative: 7-Me ether

Synonym(s): 8-Hydroxy-7-methoxyflavone

Molecular Formula: C<sub>16</sub>H<sub>12</sub>O<sub>4</sub>

Molecular Weight: 268.268

Accurate Mass: 268.07356

Percentage Composition: C 71.64%; H 4.51%; O 23.86%

Physical Description: Yellow prisms (EtOH)

Melting Point: Mp 227°

>>Derivative: Di-Me ether

Synonym(s): 7,8-Dimethoxyflavone

CAS Registry Number: 65548-54-1

Molecular Formula: C<sub>17</sub>H<sub>14</sub>O<sub>4</sub>

Molecular Weight: 282.295

Accurate Mass: 282.08921

Percentage Composition: C 72.33%; H 5.00%; O 22.67%

Biological Source: Constit. of the leaves of *Godmania aesculifolia*

Physical Description: Needles (EtOH)

Melting Point: Mp 151-152°

Sigma: D1931

References:

Venkataraman, K., *J.C.S.*, 1929, 2219, (*synth*)

Baker, W., *J.C.S.*, 1939, 956, (*synth*)

Aronoff, S., *J.O.C.*, 1940, **5**, 561, (*uv*)

Téoule, R. *et al.*, *Bull. Soc. Chim. Fr.*, 1961, **3**, 546, (*synth, uv*)

Prasunamba, K.L. *et al.*, *Indian J. Chem., Sect. B*, 1977, **15**, 929, (*synth*)

Cushman, M. *et al.*, *Tet. Lett.*, 1990, **31**, 6497, (*synth*)

Stermitz, F.R. *et al.*, *Biochem. Syst. Ecol.*, 1992, **20**, 481, (*isol, deriv*)