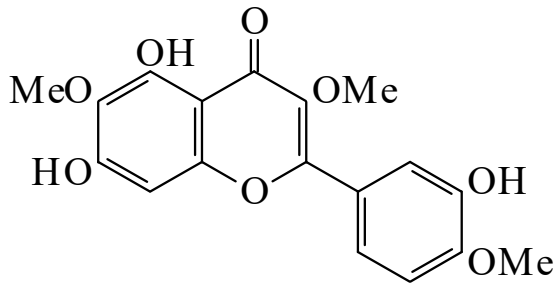
>>**Entry Name: 3',5,7-Trihydroxy-3,4',6-trimethoxyflavone**
Synonym(s): 5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-3,6-dimethoxy-4*H*-1-benzopyran-4-one, 9CI. **Centaureidin**



CAS Registry Number: 17313-52-9

Molecular Formula: $C_{18}H_{16}O_8$
Molecular Weight: 360.32
Accurate Mass: 360.08452
Percentage Composition: C 60.00%; H 4.48%; O 35.52%
Biological Source: Isol. from *Brickellia laciniata* and many others in the Asteraceae
Use/Importance: Antineoplastic agent
Physical Description: Yellow needles (MeOH)
Melting Point: Mp 196°
Calculated Log P Data: Log P 0.47 (calc)
UV: [neutral] λ_{max} 253 (); 346 () (MeOH) (Berdy) [neutral] λ_{max} 258 (ε 15000); 354 (ε 20000) (EtOH) (Berdy) [base] λ_{max} 265 (); 400 () (MeOH-NAOH) (Berdy)

>>**Derivative:** 7-*O*-β-D-Glucopyranoside
Synonym(s): Centaurein

CAS Registry Number: 35595-03-0

Molecular Formula: $C_{24}H_{26}O_{13}$
Molecular Weight: 522.462
Accurate Mass: 522.137345
Percentage Composition: C 55.17%; H 5.02%; O 39.81%
Biological Source: Constit. of the root of *Centaurea jacea*. Also from *Brickellia* spp., *Galinsoga* spp. and *Tetragonotheca* spp.
Physical Description: Yellow cryst. + H_2O
Melting Point: Mp 208-209°
Optical Rotation: $[\alpha]_D^{20}$ –76.6 (c, 1.4 in MeOH)
UV: [neutral] λ_{max} 258 (ε 29420); 349 (ε 29000) (MeOH) (Berdy)

References:

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Horie, T.*, Bull. Chem. Soc. Jpn.*, 1969, **42**, 2701, *(synth)*
Rodriguez, E. *et al.*, *Phytochemistry*, 1972, **11**, 409, *(pmr)*
Timmerman, B.N. *et al.*, *Phytochemistry*, 1979, **18**, 1855
Voirin, B.*, Phytochemistry*, 1983, **22**, 2107, *(uv)*