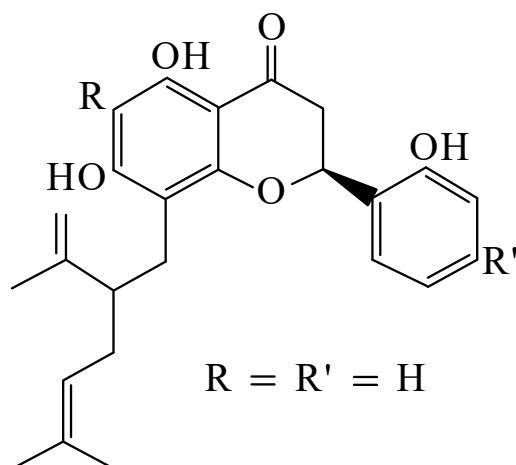




>>Entry Name: Kushenol A

Synonym(s): 2',5,7-Trihydroxy-8-lavandulylflavanone



CAS Registry Number: 99217-63-7

Molecular Formula:  $C_{25}H_{28}O_5$

Molecular Weight: 408.493

Accurate Mass: 408.193675

Percentage Composition: C 73.51%; H 6.91%; O 19.58%

Biological Source: Constit. of *Sophora flavescens*. Also from *Sophora exigua*

Physical Description: Pale yellow needles ( $C_6H_6$ )

Melting Point: Mp 172-174°

Optical Rotation:  $[\alpha]_D^{21} -115.6$  (c, 0.4 in MeOH)

>>Derivative: 5-Me ether

Synonym(s): 2',7-Dihydroxy-8-lavandulyl-5-methoxyflavanone. **Kushenol R**

Molecular Formula:  $C_{26}H_{30}O_5$

Molecular Weight: 422.52

Accurate Mass: 422.209325

Percentage Composition: C 73.91%; H 7.16%; O 18.93%

Biological Source: Constit. of *Sophora flavescens*

Optical Rotation:  $[\alpha]_D -84$  (c, 0.19 in MeOH)

UV: [neutral]  $\lambda_{max}$  287 (); 321 () (MeOH)

>>Derivative: 4",5"-Dihydro, 5"-hydroxy

Synonym(s): **Kushenol T**

Molecular Formula:  $C_{25}H_{30}O_6$

Molecular Weight: 426.508

Accurate Mass: 426.20424

Percentage Composition: C 70.40%; H 7.09%; O 22.51%

Biological Source: Constit. of *Sophora flavescens*

Optical Rotation:  $[\alpha]_D -118$  (c, 0.25 in MeOH)

UV: [neutral]  $\lambda_{max}$  293 (); 335 () (MeOH)

References:

Wu, L.J. *et al.*, *Chem. Pharm. Bull.*, 1985, **33**, 3231

Iinuma, M. *et al.*, *Phytochemistry*, 1993, **33**, 203, (*isol*, *pmr*, *cmr*)

Kuroyanagi, M. *et al.*, *J. Nat. Prod.*, 1999, **62**, 1595-1599, (*Kushenol R*, *Kushenol T*)