

5,7,3',4'-tetrahydroxyflavone

Other names:

2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-4-benzopyrone
4H-1-Benzopyran-4-one, 2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-
Digitoflavone
Flacitran
Flavone, 3',4',5,7-tetrahydroxy-
Luteolin
Weld Lake
luteoline

Inchi:

InChI=1S/C15H10O6/c16-8-4-11(19)15-12(20)6-13(21-14(15)5-8)7-1-2-9(17)10(18)3-7/h

InchiKey:

IQPNAANSBPBGFQ-UHFFFAOYSA-N

Formula:

C15H10O6

SMILES:

O=c1cc(-c2ccc(O)c(O)c2)oc2cc(O)cc(O)c12

Mol. weight [g/mol]:

286.24

CAS:

491-70-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-7.23		Crippen Method
logp	2.282		Crippen Method
mvol	190.450	ml/mol	McGowan Method
tf	610.53	K	Measurement and correlation of the solubilities of luteolin and rutin in five imidazole-based ionic liquids
tf	601.00	K	Measurement and Correlation of Solubilities of Luteolin in Organic Solvents at Different Temperatures
tf	610.58	K	Solubility of Luteolin in Ethanol + Water Mixed Solvents at Different Temperatures

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C491703&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Measurement and correlation of the solubilities of luteolin and rutin in five solvents at different temperatures. Mixed Solvents at Different Temperatures. <https://www.doi.org/10.1016/j.fluid.2013.01.026>
Measure based on correlations of Solubilities of Luteolin in Organic Solvents at Different Temperatures. <https://www.doi.org/10.1021/je060133l>
Solubility of Luteolin in Ethanol-Water <https://www.doi.org/10.1021/je900381r>
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Legend

log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
tf: Normal melting (fusion) point

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