

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
mcvol	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

Measurement and correlation of the solubilities of luteolin and rutin in five solvents at different temperatures. McGowan Method: Mixed Solvents at Different Temperatures.

<https://www.doi.org/10.1016/j.fluid.2013.01.026>

<https://www.doi.org/10.1021/je060133l>

<https://www.doi.org/10.1021/je900381r>

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C491703&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

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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