4H-1-BENZOPYRANE-4-ONE, 2-(3,4-DIHYDROXYPHENYL)-5,7-DIHYDROXY-

Other names: 2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-4-benzopyrone
4H-1-Benzopyran-4-one, 2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-
5,7,3',4'-tetrahydroxyflavone
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

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.67		Cheméo Relay (1.0)
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

Cheméo Relay (1.0, beta):

Solubility of Luteolin in Ethanol + Water Mixed Solvents at Different Temperatures: https://www.doi.org/10.1021/je900381r

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

Measurement and correlation of the solubilities of luteolin and rutin in five imidazole-based ionic liquids: https://www.doi.org/10.1016/j.fluid.2013.01.026

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

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Measurement and Correlation of Solubilities of Luteolin in Organic Solvents at Different Temperatures: https://www.doi.org/10.1021/je060133l

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Cheméo Relay (1.0):

Legend

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