Chrysin

Other names:	4H-1-benzopyran-4-one, 5,7-dihydroxy-2-phenyl-
	5,7-Dihydroxy-2-phenyl-4H-1-benzoyran-4-one (chrysin)
	5,7-dihydroxy-2-phenyl-4H-1-benzopyran-4-one
	5,7-dihydroxy-2-phenyl-4H-benzo[b]pyran-4-one
	5,7-dihydroxyflavone
	Chrysine
	flavone, 5,7-dihydroxy-
Inchi:	InChI=1S/C15H10O4/c16-10-6-11(17)15-12(18)8-13(19-14(15)7-10)9-4-2-1-3-5-9/h1-8,1
InchiKey:	RTIXKCRFFJGDFG-UHFFFAOYSA-N
Formula:	C15H10O4
SMILES:	O=c1cc(-c2ccccc2)oc2cc(O)cc(O)c12
Mol. weight [g/mol]:	254.24
CAS:	480-40-0

Physical Properties

Property code	Value	Unit	Source
hfus	39.20	kJ/mol	Solubility of Flavonoids in Organic Solvents
log10ws	-8.13		Crippen Method
logp	2.871		Crippen Method
mcvol	178.710	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	39.20	kJ/mol	558.20	NIST Webbook

Sources

Solubility of Flavonoids in Organic Solvents:	https://www.doi.org/10.1021/je7001094
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C480400&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Solubility of chrysin in ethanol and water mixtures:	https://www.doi.org/10.1021/je5001654

Legend

hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume