

2'-Hydroxy-3,3',4,4',5',6'-hexamethoxy-chalcone

Inchi:	InChI=1S/C21H24O8/c1-24-14-10-8-12(11-15(14)25-2)7-9-13(22)16-17(23)19(27-4)21(2
InchiKey:	YJWMUOUYEWHGFK-VQHVLOKHSA-N
Formula:	C21H24O8
SMILES:	COc1ccc(C=CC(=O)c2c(O)c(OC)c(OC)c(OC)c2OC)cc1OC
Mol. weight [g/mol]:	404.41
CAS:	78417-27-3

Physical Properties

Property code	Value	Unit	Source
gf	-540.34	kJ/mol	Joback Method
hf	-1038.52	kJ/mol	Joback Method
hfus	50.61	kJ/mol	Joback Method
hvap	105.04	kJ/mol	Joback Method
log10ws	-4.45		Crippen Method
logp	3.340		Crippen Method
mcvol	297.590	ml/mol	McGowan Method
pc	1600.00	kPa	Joback Method
rinpol	3220.50		NIST Webbook
tb	1036.29	K	Joback Method
tc	1273.60	K	Joback Method
tf	744.34	K	Joback Method
vc	1.056	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	950.71	J/molxK	1036.29	Joback Method
cpg	961.68	J/molxK	1075.84	Joback Method
cpg	971.12	J/molxK	1115.39	Joback Method
cpg	979.02	J/molxK	1154.94	Joback Method
cpg	985.38	J/molxK	1194.50	Joback Method
cpg	990.19	J/molxK	1234.05	Joback Method
cpg	993.44	J/molxK	1273.60	Joback Method
dvisc	0.0000039	Paxs	744.34	Joback Method

dvisc	0.0000024	Paxs	793.00	Joback Method
dvisc	0.0000016	Paxs	841.66	Joback Method
dvisc	0.0000011	Paxs	890.31	Joback Method
dvisc	0.0000008	Paxs	938.97	Joback Method
dvisc	0.0000006	Paxs	987.63	Joback Method
dvisc	0.0000005	Paxs	1036.29	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C78417273&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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