

# Flavanone, 5-hydroxy-3',4',6,7,8-pentamethoxy-

Inchi:	InChI=1S/C20H22O8/c1-23-12-7-6-10(8-14(12)24-2)13-9-11(21)15-16(22)18(25-3)20(27
InchiKey:	XRMJVHGTNXEOHH-UHFFFAOYSA-N
Formula:	C20H22O8
SMILES:	COc1ccc(C2CC(=O)c3c(O)c(OC)c(OC)c(OC)c3O2)cc1OC
Mol. weight [g/mol]:	390.38
CAS:	15512-52-4

## Physical Properties

Property code	Value	Unit	Source
gf	-555.12	kJ/mol	Joback Method
hf	-1093.36	kJ/mol	Joback Method
hfus	48.55	kJ/mol	Joback Method
hvap	102.54	kJ/mol	Joback Method
log10ws	-4.37		Crippen Method
logp	3.142		Crippen Method
mcvol	276.940	ml/mol	McGowan Method
pc	1856.31	kPa	Joback Method
rinpol	3049.00		NIST Webbook
rinpol	3049.00		NIST Webbook
tb	1038.74	K	Joback Method
tc	1284.53	K	Joback Method
tf	775.20	K	Joback Method
vc	0.973	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	922.53	J/molxK	1038.74	Joback Method
cpg	933.01	J/molxK	1079.71	Joback Method
cpg	941.64	J/molxK	1120.67	Joback Method
cpg	948.40	J/molxK	1161.64	Joback Method
cpg	953.24	J/molxK	1202.60	Joback Method
cpg	956.16	J/molxK	1243.57	Joback Method
cpg	957.12	J/molxK	1284.53	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C15512524&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15512524&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

# Legend

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

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