

# 5,6,7,4'-Tetramethoxyflavanone

<b>Inchi:</b>	InChI=1S/C19H20O6/c1-21-12-7-5-11(6-8-12)14-9-13(20)17-15(25-14)10-16(22-2)18(23)
<b>InchiKey:</b>	AENXIAWIJGWYCP-UHFFFAOYSA-N
<b>Formula:</b>	C19H20O6
<b>SMILES:</b>	<chem>COc1ccc(C2CC(=O)c3c(cc(OC)c(OC)c3OC)O2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	344.36
<b>CAS:</b>	2569-77-9

## Physical Properties

Property code	Value	Unit	Source
gf	-294.29	kJ/mol	Joback Method
hf	-751.72	kJ/mol	Joback Method
hfus	39.38	kJ/mol	Joback Method
hvap	84.23	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	3.427		Crippen Method
mvol	251.110	ml/mol	McGowan Method
pc	1823.17	kPa	Joback Method
rinpol	2905.80		NIST Webbook
tb	907.84	K	Joback Method
tc	1146.22	K	Joback Method
tf	617.46	K	Joback Method
vc	0.932	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	792.27	J/mol×K	907.84	Joback Method
cpg	806.07	J/mol×K	947.57	Joback Method
cpg	818.04	J/mol×K	987.30	Joback Method
cpg	828.13	J/mol×K	1027.03	Joback Method
cpg	836.30	J/mol×K	1066.76	Joback Method
cpg	842.49	J/mol×K	1106.49	Joback Method
cpg	846.66	J/mol×K	1146.22	Joback Method

# Sources

<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=C2569779&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2569779&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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>h vap:</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>r in pol:</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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