

# 5,7-Dimethoxy-2-(4-methoxyphenyl)chroman-4-one

<b>Inchi:</b>	InChI=1S/C18H18O5/c1-20-12-6-4-11(5-7-12)15-10-14(19)18-16(22-3)8-13(21-2)9-17(18)
<b>InchiKey:</b>	MQFSCAHSIUPLSB-UHFFFAOYSA-N
<b>Formula:</b>	C18H18O5
<b>SMILES:</b>	<chem>COc1ccc(C2CC(=O)c3c(OC)cc(OC)cc3O2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	314.33
<b>CAS:</b>	66074-95-1

## Physical Properties

Property code	Value	Unit	Source
gf	-188.08	kJ/mol	Joback Method
hf	-587.39	kJ/mol	Joback Method
hfus	35.99	kJ/mol	Joback Method
hvap	78.93	kJ/mol	Joback Method
log10ws	-4.58		Crippen Method
logp	3.419		Crippen Method
mvol	231.150	ml/mol	McGowan Method
pc	2040.07	kPa	Joback Method
rinpol	2855.40		NIST Webbook
rinpol	2855.40		NIST Webbook
tb	857.56	K	Joback Method
tc	1100.83	K	Joback Method
tf	571.44	K	Joback Method
vc	0.859	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	708.95	J/molxK	857.56	Joback Method
cpg	723.98	J/molxK	898.10	Joback Method
cpg	737.36	J/molxK	938.65	Joback Method
cpg	749.07	J/molxK	979.19	Joback Method
cpg	759.08	J/molxK	1019.74	Joback Method
cpg	767.38	J/molxK	1060.28	Joback Method
cpg	773.93	J/molxK	1100.83	Joback Method

# Sources

<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=C66074951&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C66074951&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>

# Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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