

# 3-(2,4-dimethoxyphenyl)chroman-7-ol

<b>Inchi:</b>	InChI=1S/C17H18O4/c1-19-14-5-6-15(17(9-14)20-2)12-7-11-3-4-13(18)8-16(11)21-10-12
<b>InchiKey:</b>	TUXCLJQCYYVCGDW-UHFFFAOYSA-N
<b>Formula:</b>	C17H18O4
<b>SMILES:</b>	COc1ccc(C2COc3cc(O)ccc3C2)c(OC)c1
<b>Mol. weight [g/mol]:</b>	286.32
<b>CAS:</b>	71831-00-0

## Physical Properties

Property code	Value	Unit	Source
gf	-113.90	kJ/mol	Joback Method
hf	-462.67	kJ/mol	Joback Method
hfus	38.87	kJ/mol	Joback Method
hvap	82.40	kJ/mol	Joback Method
log10ws	-3.65		Crippen Method
logp	3.128		Crippen Method
mcvol	215.490	ml/mol	McGowan Method
pc	2571.50	kPa	Joback Method
rinpol	2687.90		NIST Webbook
rinpol	2687.90		NIST Webbook
tb	820.08	K	Joback Method
tc	1067.06	K	Joback Method
tf	568.92	K	Joback Method
vc	0.744	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	650.35	J/molxK	820.08	Joback Method
cpg	665.76	J/molxK	861.24	Joback Method
cpg	680.13	J/molxK	902.41	Joback Method
cpg	693.57	J/molxK	943.57	Joback Method
cpg	706.17	J/molxK	984.74	Joback Method
cpg	718.06	J/molxK	1025.90	Joback Method
cpg	729.33	J/molxK	1067.06	Joback Method

dvisc	0.0001023	Paxs	568.92	Joback Method
dvisc	0.0000595	Paxs	610.78	Joback Method
dvisc	0.0000370	Paxs	652.64	Joback Method
dvisc	0.0000244	Paxs	694.50	Joback Method
dvisc	0.0000169	Paxs	736.36	Joback Method
dvisc	0.0000122	Paxs	778.22	Joback Method
dvisc	0.0000090	Paxs	820.08	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=C71831000&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C71831000&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>hvap:</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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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

Latest version available from:

<https://www.chemeo.com/cid/82-835-4/3-2-4-dimethoxyphenyl-chroman-7-ol.pdf>

Generated by Cheméo on 2024-04-30 11:07:30.06133757 +0000 UTC m=+16764498.981914885.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.