

# 2-methoxy-4-(4-methyl-1,3-dioxolan-2-yl)phenol

<b>Other names:</b>	Vanillin 1,2-propylene glycol acetal
<b>Inchi:</b>	InChI=1S/C11H14O4/c1-7-6-14-11(15-7)8-3-4-9(12)10(5-8)13-2/h3-5,7,11-12H,6H2,1-2H
<b>InchiKey:</b>	RFGCVZIIHRESZ-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O4
<b>SMILES:</b>	COc1cc(C2OCC(C)O2)ccc1O
<b>Mol. weight [g/mol]:</b>	210.23
<b>CAS:</b>	68527-74-2

## Physical Properties

Property code	Value	Unit	Source
gf	-258.50	kJ/mol	Joback Method
hf	-578.70	kJ/mol	Joback Method
hfus	35.83	kJ/mol	Joback Method
hvap	67.41	kJ/mol	Joback Method
log10ws	-1.91		Crippen Method
logp	1.835		Crippen Method
mcvol	154.710	ml/mol	McGowan Method
pc	3472.45	kPa	Joback Method
rinpol	1685.60		NIST Webbook
rinpol	1685.60		NIST Webbook
tb	650.29	K	Joback Method
tc	888.93	K	Joback Method
tf	446.42	K	Joback Method
vc	0.509	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	430.90	J/molxK	650.29	Joback Method
cpg	446.19	J/molxK	690.06	Joback Method
cpg	460.43	J/molxK	729.84	Joback Method
cpg	473.70	J/molxK	769.61	Joback Method
cpg	486.07	J/molxK	809.38	Joback Method
cpg	497.62	J/molxK	849.16	Joback Method

cpg	508.41	J/mol×K	888.93	Joback Method
dvisc	0.0005967	Paxs	446.42	Joback Method
dvisc	0.0003126	Paxs	480.40	Joback Method
dvisc	0.0001784	Paxs	514.38	Joback Method
dvisc	0.0001091	Paxs	548.36	Joback Method
dvisc	0.0000707	Paxs	582.33	Joback Method
dvisc	0.0000480	Paxs	616.31	Joback Method
dvisc	0.0000340	Paxs	650.29	Joback Method

## Sources

<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>
<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=C68527742&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C68527742&amp;Units=SI</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>mcvol:</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

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