

# 4-(1 E)-3-hydroxy-1-propenyl-2-methoxyphenol

<b>Other names:</b>	3-(4-Hydroxy-3-methoxyphenyl)-2-propenyl alcohol (cis-coniferyl alcohol) 2-Propen-1-ol, 3-(4-hydroxy-3-methoxyphenyl), (E)-
<b>Inchi:</b>	InChI=1S/C10H12O3/c1-13-10-7-8(3-2-6-11)4-5-9(10)12/h2-5,7,11-12H,6H2,1H3/b3-2+
<b>InchiKey:</b>	JMFRWRFFLBVWSI-NSCUHMNNSA-N
<b>Formula:</b>	C10H12O3
<b>SMILES:</b>	COc1cc(C=CCO)ccc1O
<b>Mol. weight [g/mol]:</b>	180.20
<b>CAS:</b>	69056-21-9

## Physical Properties

Property code	Value	Unit	Source
gf	-180.12	kJ/mol	Joback Method
hf	-369.21	kJ/mol	Joback Method
hfus	26.57	kJ/mol	Joback Method
hvap	72.85	kJ/mol	Joback Method
log10ws	-1.65		Crippen Method
logp	1.406		Crippen Method
mcvol	141.310	ml/mol	McGowan Method
pc	3975.52	kPa	Joback Method
rinpol	1727.00		NIST Webbook
rinpol	1683.00		NIST Webbook
rinpol	1727.00		NIST Webbook
rinpol	1683.00		NIST Webbook
ripol	2832.00		NIST Webbook
tb	659.24	K	Joback Method
tc	869.04	K	Joback Method
tf	431.09	K	Joback Method
vc	0.470	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	361.86	J/molxK	659.24	Joback Method
cpg	371.97	J/molxK	694.21	Joback Method

cpg	381.51	J/molxK	729.17	Joback Method
cpg	390.53	J/molxK	764.14	Joback Method
cpg	399.09	J/molxK	799.11	Joback Method
cpg	407.27	J/molxK	834.08	Joback Method
cpg	415.12	J/molxK	869.04	Joback Method
dvisc	0.0004866	Paxs	431.09	Joback Method
dvisc	0.0001709	Paxs	469.12	Joback Method
dvisc	0.0000702	Paxs	507.14	Joback Method
dvisc	0.0000327	Paxs	545.16	Joback Method
dvisc	0.0000168	Paxs	583.19	Joback Method
dvisc	0.0000094	Paxs	621.22	Joback Method
dvisc	0.0000056	Paxs	659.24	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=C69056219&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C69056219&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>
<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>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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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