

# 2-Allyl-4-methylphenol

<b>Other names:</b>	Phenol, 4-methyl-2-(2-propenyl)- 2-Allyl-p-cresol
<b>Inchi:</b>	InChI=1S/C10H12O/c1-3-4-9-7-8(2)5-6-10(9)11/h3,5-7,11H,1,4H2,2H3
<b>InchiKey:</b>	JVXJWGPWQBZOI-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O
<b>SMILES:</b>	<chem>C=CCc1cc(C)ccc1O</chem>
<b>Mol. weight [g/mol]:</b>	148.20
<b>CAS:</b>	6628-06-4

## Physical Properties

Property code	Value	Unit	Source
gf	69.32	kJ/mol	Joback Method
hf	-76.55	kJ/mol	Joback Method
hfus	19.81	kJ/mol	Joback Method
hvap	53.14	kJ/mol	Joback Method
log10ws	-2.57		Crippen Method
logp	2.429		Crippen Method
mvol	129.570	ml/mol	McGowan Method
pc	3581.35	kPa	Joback Method
tb	537.16	K	Joback Method
tc	761.51	K	Joback Method
tf	351.36	K	Joback Method
vc	0.434	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	292.39	J/molxK	537.16	Joback Method
cpg	348.11	J/molxK	724.12	Joback Method
cpg	338.41	J/molxK	686.73	Joback Method
cpg	328.08	J/molxK	649.34	Joback Method
cpg	317.01	J/molxK	611.94	Joback Method
cpg	305.14	J/molxK	574.55	Joback Method
cpg	357.24	J/molxK	761.51	Joback Method

dvisc	0.0000593	Paxs	537.16	Joback Method
dvisc	0.0000903	Paxs	506.19	Joback Method
dvisc	0.0001450	Paxs	475.23	Joback Method
dvisc	0.0002488	Paxs	444.26	Joback Method
dvisc	0.0004629	Paxs	413.29	Joback Method
dvisc	0.0009526	Paxs	382.33	Joback Method
dvisc	0.0022258	Paxs	351.36	Joback Method

## Sources

<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=C6628064&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6628064&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>

## 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>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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