

# Phenol, 2,6-dichloro-4-(1-methylpropyl)-

<b>Other names:</b>	4-Sec-butyl-2,6-dichlorophenol
<b>Inchi:</b>	InChI=1S/C10H12Cl2O/c1-3-6(2)7-4-8(11)10(13)9(12)5-7/h4-6,13H,3H2,1-2H3
<b>InchiKey:</b>	DZKJAGRVOGNQGW-UHFFFAOYSA-N
<b>Formula:</b>	C10H12Cl2O
<b>SMILES:</b>	CCC(C)c1cc(Cl)c(O)c(Cl)c1
<b>Mol. weight [g/mol]:</b>	219.11
<b>CAS:</b>	34593-74-3

## Physical Properties

Property code	Value	Unit	Source
gf	-54.45	kJ/mol	Joback Method
hf	-250.21	kJ/mol	Joback Method
hfus	25.57	kJ/mol	Joback Method
hvap	62.85	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	4.213		Crippen Method
mcvol	158.350	ml/mol	McGowan Method
pc	3107.10	kPa	Joback Method
tb	619.88	K	Joback Method
tc	853.16	K	Joback Method
tf	410.48	K	Joback Method
vc	0.545	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	360.17	J/molxK	619.88	Joback Method
cpg	371.82	J/molxK	658.76	Joback Method
cpg	382.70	J/molxK	697.64	Joback Method
cpg	392.88	J/molxK	736.52	Joback Method
cpg	402.46	J/molxK	775.40	Joback Method
cpg	411.52	J/molxK	814.28	Joback Method
cpg	420.13	J/molxK	853.16	Joback Method
dvisc	0.0008848	Paxs	410.48	Joback Method

dvisc	0.0004064	Paxs	445.38	Joback Method
dvisc	0.0002090	Paxs	480.28	Joback Method
dvisc	0.0001176	Paxs	515.18	Joback Method
dvisc	0.0000712	Paxs	550.08	Joback Method
dvisc	0.0000457	Paxs	584.98	Joback Method
dvisc	0.0000309	Paxs	619.88	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=C34593743&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C34593743&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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