

# Phenol, 2,4-bis(1-methylpropyl)-

<b>Other names:</b>	Phenol, 2,4-di-sec-butyl- 2,4-Di-sec-butylphenol
<b>Inchi:</b>	InChI=1S/C14H22O/c1-5-10(3)12-7-8-14(15)13(9-12)11(4)6-2/h7-11,15H,5-6H2,1-4H3
<b>InchiKey:</b>	JERZAOOJWPHIDG-UHFFFAOYSA-N
<b>Formula:</b>	C14H22O
<b>SMILES:</b>	CCC(C)c1ccc(O)c(C(C)CC)c1
<b>Mol. weight [g/mol]:</b>	206.32
<b>CAS:</b>	1849-18-9

## Physical Properties

Property code	Value	Unit	Source
gf	10.28	kJ/mol	Joback Method
hf	-295.10	kJ/mol	Joback Method
hfus	24.40	kJ/mol	Joback Method
hvap	61.93	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	4.419		Crippen Method
mvol	190.230	ml/mol	McGowan Method
pc	2309.17	kPa	Joback Method
tb	631.12	K	Joback Method
tc	844.75	K	Joback Method
tf	368.20	K	Joback Method
vc	0.665	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	505.95	J/molxK	631.12	Joback Method
cpg	522.82	J/molxK	666.72	Joback Method
cpg	538.70	J/molxK	702.33	Joback Method
cpg	553.68	J/molxK	737.93	Joback Method
cpg	567.84	J/molxK	773.54	Joback Method
cpg	581.24	J/molxK	809.14	Joback Method
cpg	593.96	J/molxK	844.75	Joback Method

dvisc	0.0023539	Paxs	368.20	Joback Method
dvisc	0.0006999	Paxs	412.02	Joback Method
dvisc	0.0002627	Paxs	455.84	Joback Method
dvisc	0.0001171	Paxs	499.66	Joback Method
dvisc	0.0000595	Paxs	543.48	Joback Method
dvisc	0.0000334	Paxs	587.30	Joback Method
dvisc	0.0000203	Paxs	631.12	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=C1849189&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1849189&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>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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