

# 4-sec-Butyl-2-tert-butyl-6-hydroperoxymethyl-phenol

<b>Inchi:</b>	InChI=1S/C15H24O3/c1-6-10(2)11-7-12(9-18-17)14(16)13(8-11)15(3,4)5/h7-8,10,16-17H
<b>InchiKey:</b>	HVMLPRKOWGHNKO-UHFFFAOYSA-N
<b>Formula:</b>	C15H24O3
<b>SMILES:</b>	CCC(C)c1cc(COO)c(O)c(C(C)(C)C)c1
<b>Mol. weight [g/mol]:</b>	252.35

## Physical Properties

Property code	Value	Unit	Source
gf	-329.56	kJ/mol	Joback Method
hf	-680.95	kJ/mol	Joback Method
hfus	32.86	kJ/mol	Joback Method
hvap	81.08	kJ/mol	Joback Method
log10ws	-4.22		Crippen Method
logp	4.193		Crippen Method
mcvol	216.060	ml/mol	McGowan Method
pc	2151.31	kPa	Joback Method
rinpol	1753.00		NIST Webbook
rinpol	1753.00		NIST Webbook
tb	801.70	K	Joback Method
tc	1028.56	K	Joback Method
tf	570.01	K	Joback Method
vc	0.741	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	637.15	J/molxK	801.70	Joback Method
cpg	651.08	J/molxK	839.51	Joback Method
cpg	664.30	J/molxK	877.32	Joback Method
cpg	676.94	J/molxK	915.13	Joback Method
cpg	689.11	J/molxK	952.94	Joback Method
cpg	700.93	J/molxK	990.75	Joback Method
cpg	712.54	J/molxK	1028.56	Joback Method
dvisc	0.0000770	Paxs	570.01	Joback Method

dvisc	0.0000431	Paxs	608.62	Joback Method
dvisc	0.0000258	Paxs	647.24	Joback Method
dvisc	0.0000164	Paxs	685.86	Joback Method
dvisc	0.0000109	Paxs	724.47	Joback Method
dvisc	0.0000076	Paxs	763.09	Joback Method
dvisc	0.0000055	Paxs	801.70	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R169878&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R169878&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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