

# 2,4-tert-butyl-6-hydroperoxymethyl-phenol

<b>Inchi:</b>	InChI=1S/C15H24O3/c1-14(2,3)11-7-10(9-18-17)13(16)12(8-11)15(4,5)6/h7-8,16-17H,9H
<b>InchiKey:</b>	KXSKHOFQSDTQAV-UHFFFAOYSA-N
<b>Formula:</b>	C15H24O3
<b>SMILES:</b>	CC(C)(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	-324.28	kJ/mol	Joback Method
hf	-684.42	kJ/mol	Joback Method
hfus	28.97	kJ/mol	Joback Method
hvap	80.17	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.977		Crippen Method
mvol	216.060	ml/mol	McGowan Method
pc	2173.43	kPa	Joback Method
rinpol	1744.00		NIST Webbook
tb	798.91	K	Joback Method
tc	1032.68	K	Joback Method
tf	587.43	K	Joback Method
vc	0.736	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	638.42	J/molxK	798.91	Joback Method
cpg	652.40	J/molxK	837.87	Joback Method
cpg	665.68	J/molxK	876.83	Joback Method
cpg	678.39	J/molxK	915.80	Joback Method
cpg	690.71	J/molxK	954.76	Joback Method
cpg	702.79	J/molxK	993.72	Joback Method
cpg	714.78	J/molxK	1032.68	Joback Method
dvisc	0.0000555	Paxs	587.43	Joback Method
dvisc	0.0000330	Paxs	622.68	Joback Method

dvisc	0.0000207	Paxs	657.92	Joback Method
dvisc	0.0000136	Paxs	693.17	Joback Method
dvisc	0.0000093	Paxs	728.42	Joback Method
dvisc	0.0000066	Paxs	763.66	Joback Method
dvisc	0.0000048	Paxs	798.91	Joback Method

## Sources

<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=R169749&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R169749&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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