

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

Inchi:	InChI=1S/C15H24O2/c1-6-10(2)11-7-12(9-16)14(17)13(8-11)15(3,4)5/h7-8,10,16-17H,6,
InchiKey:	YSDSUIRQJMIZFL-UHFFFAOYSA-N
Formula:	C15H24O2
SMILES:	CCC(C)c1cc(CO)c(O)c(C(C)(C)C)c1
Mol. weight [g/mol]:	236.35

## Physical Properties

Property code	Value	Unit	Source
gf	-122.47	kJ/mol	Joback Method
hf	-482.91	kJ/mol	Joback Method
hfus	26.80	kJ/mol	Joback Method
hvap	80.59	kJ/mol	Joback Method
log10ws	-4.08		Crippen Method
logp	3.696		Crippen Method
mcvol	210.190	ml/mol	McGowan Method
pc	2291.52	kPa	Joback Method
rinsol	1710.00		NIST Webbook
tb	748.37	K	Joback Method
tc	953.80	K	Joback Method
tf	470.23	K	Joback Method
vc	0.736	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	620.19	J/molxK	748.37	Joback Method
cpg	634.48	J/molxK	782.61	Joback Method
cpg	648.03	J/molxK	816.85	Joback Method
cpg	660.94	J/molxK	851.08	Joback Method
cpg	673.29	J/molxK	885.32	Joback Method
cpg	685.16	J/molxK	919.56	Joback Method
cpg	696.64	J/molxK	953.80	Joback Method
dvisc	0.0002604	Paxs	470.23	Joback Method
dvisc	0.0000803	Paxs	516.59	Joback Method

dvisc	0.0000301	Paxs	562.94	Joback Method
dvisc	0.0000131	Paxs	609.30	Joback Method
dvisc	0.0000064	Paxs	655.66	Joback Method
dvisc	0.0000034	Paxs	702.01	Joback Method
dvisc	0.0000020	Paxs	748.37	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=R169883&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R169883&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>

## 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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