

# Phenol, 4,4'-isopropylidene bis(2-tert-butyl)-

<b>Other names:</b>	4,4'-isopropylidenebis(o-tert-butylphenol)
<b>Inchi:</b>	InChI=1S/C23H32O2/c1-21(2,3)17-13-15(9-11-19(17)24)23(7,8)16-10-12-20(25)18(14-1
<b>InchiKey:</b>	ZDRSNHRWLQQICP-UHFFFAOYSA-N
<b>Formula:</b>	C23H32O2
<b>SMILES:</b>	CC(C)(C)c1cc(C(C)(C)c2ccc(O)c(C(C)(C)C)c2)ccc1O
<b>Mol. weight [g/mol]:</b>	340.50
<b>CAS:</b>	79-96-9

## Physical Properties

Property code	Value	Unit	Source
gf	47.62	kJ/mol	Joback Method
hf	-448.80	kJ/mol	Joback Method
hfus	31.95	kJ/mol	Joback Method
hvap	94.81	kJ/mol	Joback Method
log10ws	-5.81		Crippen Method
logp	6.019		Crippen Method
mcvol	299.150	ml/mol	McGowan Method
pc	1681.03	kPa	Joback Method
tb	940.51	K	Joback Method
tc	1191.95	K	Joback Method
tf	657.55	K	Joback Method
vc	1.006	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	984.23	J/molxK	940.51	Joback Method
cpg	1085.94	J/molxK	1150.04	Joback Method
cpg	1064.19	J/molxK	1108.14	Joback Method
cpg	1043.47	J/molxK	1066.23	Joback Method
cpg	1023.45	J/molxK	1024.32	Joback Method
cpg	1003.82	J/molxK	982.42	Joback Method
cpg	1109.06	J/molxK	1191.95	Joback Method
dvisc	4.7380576e-08	Paxs	940.51	Joback Method

dvisc	7.5021655e-08	Paxs	893.35	Joback Method
dvisc	0.0000001	Paxs	846.19	Joback Method
dvisc	0.0000002	Paxs	799.03	Joback Method
dvisc	0.0000004	Paxs	751.87	Joback Method
dvisc	0.0000009	Paxs	704.71	Joback Method
dvisc	0.0000020	Paxs	657.55	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=C79969&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C79969&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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