

# trans,cis-2,5-Di-tert-butylcyclohexanol

<b>Inchi:</b>	InChI=1S/C14H28O/c1-13(2,3)10-7-8-11(12(15)9-10)14(4,5)6/h10-12,15H,7-9H2,1-6H3/
<b>InchiKey:</b>	REPJSEOIEYLARO-QJPTWQEYSA-N
<b>Formula:</b>	C14H28O
<b>SMILES:</b>	CC(C)(C)C1CCC(C(C)(C)C)C(O)C1
<b>Mol. weight [g/mol]:</b>	212.37
<b>CAS:</b>	14737-10-1

## Physical Properties

Property code	Value	Unit	Source
gf	-55.11	kJ/mol	Joback Method
hf	-488.38	kJ/mol	Joback Method
hfus	15.25	kJ/mol	Joback Method
hvap	60.66	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.856		Crippen Method
mcvol	203.130	ml/mol	McGowan Method
pc	1901.92	kPa	Joback Method
tb	615.65	K	Joback Method
tc	812.88	K	Joback Method
tf	312.10	K	Joback Method
vc	0.748	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	583.46	J/molxK	615.65	Joback Method
cpg	604.34	J/molxK	648.52	Joback Method
cpg	623.98	J/molxK	681.39	Joback Method
cpg	642.44	J/molxK	714.27	Joback Method
cpg	659.78	J/molxK	747.14	Joback Method
cpg	676.05	J/molxK	780.01	Joback Method
cpg	691.30	J/molxK	812.88	Joback Method
dvisc	0.0155906	Paxs	312.10	Joback Method
dvisc	0.0033236	Paxs	362.69	Joback Method

dvisc	0.0010344	Paxs	413.28	Joback Method
dvisc	0.0004153	Paxs	463.88	Joback Method
dvisc	0.0001995	Paxs	514.47	Joback Method
dvisc	0.0001093	Paxs	565.06	Joback Method
dvisc	0.0000661	Paxs	615.65	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C14737101&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C14737101&amp;Units=SI</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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