Cyclohexanol, 2,5-di-tert-butyl-, cis-1,2, trans-1,5

Inchi: 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/t
InchiKey: REPJSEOIEYLARO-UTUOFQBUSA-N
Formula: C14H28O
SMILES: CC(C)(C)C1CCC(C(C)(C)C)C(O)C1
Mol. weight [g/mol]: 212.37
CAS: 14736-73-3

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/mol×K	615.65	Joback Method
cpg	676.05	J/mol×K	780.01	Joback Method
cpg	659.78	J/mol×K	747.14	Joback Method
cpg	642.44	J/mol×K	714.27	Joback Method
cpg	623.98	J/mol×K	681.39	Joback Method
cpg	604.34	J/mol×K	648.52	Joback Method
cpg	691.30	J/mol×K	812.88	Joback Method
dvisc	0.0000661	Pa×s	615.65	Joback Method
dvisc	0.0001093	Pa×s	565.06	Joback Method

dvisc	0.0001995	Pa×s	514.47	Joback Method
dvisc	0.0004153	Pa×s	463.88	Joback Method
dvisc	0.0010344	Pa×s	413.28	Joback Method
dvisc	0.0033236	Pa×s	362.69	Joback Method
dvisc	0.0155906	Pa×s	312.10	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14736733&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume