Terpinol

Other names: cis-4-hydroxy-«alpha»,«alpha»,4-trimethylcyclohexanemethanol
Inchi: InChI=1S/C10H20O2/c1-9(2,11)8-4-6-10(3,12)7-5-8/h8,11-12H,4-7H2,1-3H3/t8-,10+
InchiKey: RBNWAMSGVWEHFP-WAAGHKOSSA-N
Formula: C10H20O2
SMILES: CC1(O)CCC(C(C)(C)O)CC1
Mol. weight [g/mol]: 172.26
CAS: 565-48-0

Physical Properties

Property code	Value	Unit	Source
gf	-226.23	kJ/mol	Joback Method
hf	-513.72	kJ/mol	Joback Method
hfus	9.03	kJ/mol	Joback Method
hvap	68.89	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	1.698		Crippen Method
mcvol	152.640	ml/mol	McGowan Method
pc	3235.66	kPa	Joback Method
tb	624.45	K	Joback Method
tc	816.90	K	Joback Method
tf	353.56	K	Joback Method
vc	0.552	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	434.23	J/mol×K	624.45	Joback Method
cpg	448.51	J/mol×K	656.53	Joback Method
cpg	462.03	J/mol×K	688.60	Joback Method
cpg	474.88	J/mol×K	720.68	Joback Method
cpg	487.17	J/mol×K	752.75	Joback Method
cpg	498.98	J/mol×K	784.83	Joback Method
cpg	510.42	J/mol×K	816.90	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C565480&Units=SI

Legend

cpg:	Ideal gas heat capacity
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