6-Terpineol

Inchi: InChI=1S/C10H18O/c1-8-4-6-9(7-5-8)10(2,3)11/h9,11H,1,4-7H2,2-3H3
InchiKey: SQIFACVGCPWBQZ-UHFFFAOYSA-N
Formula: C10H18O
SMILES: C=C1CCC(C(C)(C)O)CC1
Mol. weight [g/mol]: 154.25

Physical Properties

Property code	Value	Unit	Source
gf	-23.13	kJ/mol	Joback Method
hf	-272.15	kJ/mol	Joback Method
hfus	9.01	kJ/mol	Joback Method
hvap	53.83	kJ/mol	Joback Method
log10ws	-2.89		Crippen Method
logp	2.504		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2944.08	kPa	Joback Method
rinpol	1095.00		NIST Webbook
tb	535.86	K	Joback Method
tc	734.69	K	Joback Method
tf	286.76	K	Joback Method
vc	0.520	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	352.52	J/mol×K	535.86	Joback Method
cpg	424.57	J/mol×K	701.55	Joback Method
cpg	411.86	J/mol×K	668.41	Joback Method
cpg	398.33	J/mol×K	635.28	Joback Method
cpg	383.96	J/mol×K	602.14	Joback Method
cpg	368.70	J/mol×K	569.00	Joback Method
cpg	436.50	J/mol×K	734.69	Joback Method
dvisc	0.0001262	Pa×s	535.86	Joback Method
dvisc	0.0002079	Pa×s	494.34	Joback Method

dvisc	0.0003752	Pa×s	452.83	Joback Method
dvisc	0.0007630	Pa×s	411.31	Joback Method
dvisc	0.0018196	Pa×s	369.79	Joback Method
dvisc	0.0054062	Pa×s	328.28	Joback Method
dvisc	0.0220163	Pa×s	286.76	Joback Method

Sources

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=R504068&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume