

Terpineol

Inchi:	InChI=1S/C10H18O/c1-8-4-6-9(7-5-8)10(2,3)11/h4,9,11H,5-7H2,1-3H3
InchiKey:	WUOACPNHFRMFPN-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	CC1=CCC(C(C)(C)O)CC1
Mol. weight [g/mol]:	154.25
CAS:	8006-39-1

Physical Properties

Property code	Value	Unit	Source
gf	-55.88	kJ/mol	Joback Method
hf	-310.08	kJ/mol	Joback Method
hfus	11.00	kJ/mol	Joback Method
hvap	54.62	kJ/mol	Joback Method
log10ws	-2.89		Crippen Method
logp	2.504		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2950.48	kPa	Joback Method
tb	540.84	K	Joback Method
tc	740.92	K	Joback Method
tf	286.36	K	Joback Method
vc	0.522	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	353.52	J/molxK	540.84	Joback Method
cpg	369.52	J/molxK	574.19	Joback Method
cpg	384.60	J/molxK	607.53	Joback Method
cpg	398.78	J/molxK	640.88	Joback Method
cpg	412.12	J/molxK	674.23	Joback Method
cpg	424.66	J/molxK	707.57	Joback Method
cpg	436.42	J/molxK	740.92	Joback Method
dvisc	0.0209502	Paxs	286.36	Joback Method
dvisc	0.0049794	Paxs	328.77	Joback Method

dvisc	0.0016435	Paxs	371.19	Joback Method
dvisc	0.0006809	Paxs	413.60	Joback Method
dvisc	0.0003324	Paxs	456.01	Joback Method
dvisc	0.0001833	Paxs	498.43	Joback Method
dvisc	0.0001110	Paxs	540.84	Joback Method

Sources

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=C8006391&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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