«delta»-Terpineol

Other names:	«delta»-terpineol [=p-menth-1(7)-en-8-ol]
	«alpha»,«alpha»-dimethyl-4-methylenecyclohexanemethanol
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
CAS:	7299-42-5

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	1134.00		NIST Webbook
rinpol	1167.00		NIST Webbook
rinpol	1145.00		NIST Webbook
rinpol	1159.00		NIST Webbook
rinpol	1166.00		NIST Webbook
rinpol	1144.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1148.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1141.00		NIST Webbook
rinpol	1141.00		NIST Webbook
rinpol	1152.00		NIST Webbook
rinpol	1143.00		NIST Webbook
rinpol	1171.30		NIST Webbook
rinpol	1187.00		NIST Webbook
rinpol	1164.00		NIST Webbook
rinpol	1172.00		NIST Webbook
rinpol	1170.00		NIST Webbook

rinpol	1173.00	NIST Webbook
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ripol	1684.00		NIST Webbook
ripol	1682.00		NIST Webbook
ripol	1687.00		NIST Webbook
ripol	1687.00		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: 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=C7299425&Units=SI

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume