«alpha»-Terpineol, dihydro

Inchi: InChI=1S/C10H20O/c1-8-4-6-9(7-5-8)10(2,3)11/h8-9,11H,4-7H2,1-3H3
InchiKey: UODXCYZDMHPIJE-UHFFFAOYSA-N
Formula: C10H20O
SMILES: CC1CCC(C(C)(C)O)CC1
Mol. weight [g/mol]: 156.27

Physical Properties

Property code	Value	Unit	Source
gf	-83.92	kJ/mol	Joback Method
hf	-376.73	kJ/mol	Joback Method
hfus	11.24	kJ/mol	Joback Method
hvap	53.36	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.584		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2784.72	kPa	Joback Method
rinpol	195.96		NIST Webbook
tb	532.03	K	Joback Method
tc	729.03	K	Joback Method
tf	268.84	K	Joback Method
vc	0.535	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.32	J/mol×K	532.03	Joback Method
cpg	451.95	J/mol×K	696.19	Joback Method
cpg	437.86	J/mol×K	663.36	Joback Method
cpg	422.88	J/mol×K	630.53	Joback Method
cpg	406.99	J/mol×K	597.70	Joback Method
cpg	390.15	J/mol×K	564.86	Joback Method
cpg	465.20	J/mol×K	729.03	Joback Method
dvisc	0.0001308	Pa×s	532.03	Joback Method
dvisc	0.0002204	Pa×s	488.16	Joback Method

dvisc	0.0004116	Pa×s	444.30	Joback Method
dvisc	0.0008815	Pa×s	400.44	Joback Method
dvisc	0.0022767	Pa×s	356.57	Joback Method
dvisc	0.0076741	Pa×s	312.71	Joback Method
dvisc	0.0384558	Pa×s	268.84	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=R546651&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

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