8-Hydroxy-6,7-dihydrolinalool

Other names: 2,6-Dimethyl-oct-7-en-1,6-diol
2,6-dimethyl-7-octene- 1,6-diol
8-Hydroxy-6,7-dihydrolinalol
Inchi: InChI=1S/C10H20O2/c1-4-10(3,12)7-5-6-9(2)8-11/h4,9,11-12H,1,5-8H2,2-3H3
InchiKey: GFOMTORUAWAGGU-UHFFFAOYSA-N
Formula: C10H20O2
SMILES: C=CC(C)(O)CCCC(C)CO
Mol. weight [g/mol]: 172.26

Physical Properties

Property code	Value	Unit	Source
gf	-152.08	kJ/mol	Joback Method
hf	-442.79	kJ/mol	Joback Method
hfus	17.61	kJ/mol	Joback Method
hvap	68.86	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	1.722		Crippen Method
mcvol	159.200	ml/mol	McGowan Method
pc	2698.60	kPa	Joback Method
ripol	2197.00		NIST Webbook
ripol	2220.00		NIST Webbook
ripol	2197.00		NIST Webbook
ripol	2184.00		NIST Webbook
ripol	2220.00		NIST Webbook
ripol	2209.00		NIST Webbook
tb	605.57	K	Joback Method
tc	773.16	K	Joback Method
tf	309.76	K	Joback Method
vc	0.598	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	424.05	J/mol×K	605.57	Joback Method

cpg	435.71	J/mol×K	633.50	Joback Method
cpg	446.79	J/mol×K	661.43	Joback Method
cpg	457.33	J/mol×K	689.36	Joback Method
cpg	467.35	J/mol×K	717.29	Joback Method
cpg	476.88	J/mol×K	745.23	Joback Method
cpg	485.96	J/mol×K	773.16	Joback Method
dvisc	0.0575569	Pa×s	309.76	Joback Method
dvisc	0.0065456	Pa×s	359.06	Joback Method
dvisc	0.0012583	Pa×s	408.36	Joback Method
dvisc	0.0003451	Pa×s	457.67	Joback Method
dvisc	0.0001217	Pa×s	506.97	Joback Method
dvisc	0.0000516	Pa×s	556.27	Joback Method
dvisc	0.0000252	Pa×s	605.57	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R274594&Units=SI
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

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

vc: Critical Volume