1,2-Dihydrolinalool

Other names:	3,7-Dimethyl-6-octen-3-ol
	3,7-Dimethyl-6-octene-3-ol
	3,7-dimethyloct-6-en-3-ol
	6-Octen-3-ol, 3,7-dimethyl-
	Dihydrolinalol
	Dihydrolinalool
Inchi:	InChI=1S/C10H20O/c1-5-10(4,11)8-6-7-9(2)3/h7,11H,5-6,8H2,1-4H3
InchiKey:	JRTBBCBDKSRRCY-UHFFFAOYSA-N
Formula:	C10H20O
SMILES:	CCC(C)(O)CCC=C(C)C
Mol. weight [g/mol]:	156.27
CAS:	18479-51-1

Physical Properties

Property code	Value	Unit	Source
gf	-28.99	kJ/mol	Joback Method
hf	-303.28	kJ/mol	Joback Method
hfus	17.22	kJ/mol	Joback Method
hvap	53.28	kJ/mol	Joback Method
log10ws	-3.24		Crippen Method
logp	2.894		Crippen Method
mcvol	153.330	ml/mol	McGowan Method
pc	2475.19	kPa	Joback Method
rinpol	1125.00		NIST Webbook
rinpol	1121.00		NIST Webbook
rinpol	1125.00		NIST Webbook
rinpol	1104.00		NIST Webbook
rinpol	1119.00		NIST Webbook
rinpol	1135.80		NIST Webbook
rinpol	1121.00		NIST Webbook
rinpol	1121.00		NIST Webbook
ripol	1496.00		NIST Webbook
ripol	1512.00		NIST Webbook
ripol	1509.00		NIST Webbook
ripol	1537.00		NIST Webbook
ripol	1487.00		NIST Webbook
ripol	1537.00		NIST Webbook

ripol	1509.00		NIST Webbook
ripol	1512.00		NIST Webbook
ripol	1496.00		NIST Webbook
ripol	1512.00		NIST Webbook
tb	521.19	K	Joback Method
tc	697.61	K	Joback Method
tf	246.66	K	Joback Method
vc	0.585	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	365.73	J/mol×K	521.19	Joback Method
cpg	379.63	J/mol×K	550.59	Joback Method
cpg	392.81	J/mol×K	580.00	Joback Method
cpg	405.32	J/mol×K	609.40	Joback Method
cpg	417.18	J/mol×K	638.80	Joback Method
cpg	428.43	J/mol×K	668.20	Joback Method
cpg	439.11	J/mol×K	697.61	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.42883e+01
Coeff. B	-4.24423e+03
Coeff. C	-7.97750e+01
Temperature range (K), min.	382.92
Temperature range (K), max.	552.58

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C18479511&Units=SI

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

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
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
pvap:	Vapor 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