2,7-Octadiene-1,6-diol, 2,6-dimethyl-, (Z)-

Other names:	(2Z)-2,6-Dimethyl-2,7-octadiene-1,6-diol
	2,6-Dimethyl-2(Z),7-octadiene-1,6-diol
	cis-8-Hydroxylinalool
	(Z)-2,6-Dimethy1-2,7-octadiene-1,6-diol
	(Z)-2,6-Dimethyl-2,7-octadien-1,6-diol
	(Z)-2,6-Dimethylocta-2,7-diene-1,6-diol
	(Z)-8-Hydroxylinalol
	cis-3,7-Dimethyl-1,6-octadiene-3,8-diol
	(Z)-2,6-dimethyl-octa-2,7-dien-1,6-diol
	(Z)-8-hydroxylinalool
	(Z)-2,6-dimethyl-2,7- octadiene-1,6-diol
	cis-8-hydroxylinalool (cis-3,7-dimethyl-1,6-octadiene-3,8-diol)
Inchi:	InChI=1S/C10H18O2/c1-4-10(3,12)7-5-6-9(2)8-11/h4,6,11-12H,1,5,7-8H2,2-3H3/b9-6-
InchiKey:	NSMIMJYEKVSYMT-TWGQIWQCSA-N
Formula:	C10H18O2
SMILES:	C=CC(C)(O)CCC=C(C)CO
Mol. weight [g/mol]:	170.25
CAS:	103619-06-3

Physical Properties

Property code	Value	Unit	Source
gf	-77.97	kJ/mol	Joback Method
hf	-330.08	kJ/mol	Joback Method
hfus	20.03	kJ/mol	Joback Method
hvap	69.28	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	1.642		Crippen Method
mcvol	154.900	ml/mol	McGowan Method
pc	2841.41	kPa	Joback Method
rinpol	1361.00		NIST Webbook
rinpol	1358.00		NIST Webbook
rinpol	1362.00		NIST Webbook
rinpol	1357.00		NIST Webbook
rinpol	1360.00		NIST Webbook
rinpol	1357.00		NIST Webbook
rinpol	1362.00		NIST Webbook
rinpol	1361.00		NIST Webbook

rinpol	1357.00		NIST Webbook
rinpol	1358.00		NIST Webbook
rinpol	1370.00		NIST Webbook
ripol	2326.00		NIST Webbook
ripol	2327.00		NIST Webbook
ripol	2310.00		NIST Webbook
ripol	2343.00		NIST Webbook
ripol	2316.00		NIST Webbook
ripol	2327.00		NIST Webbook
ripol	2325.00		NIST Webbook
ripol	2311.00		NIST Webbook
ripol	2327.00		NIST Webbook
ripol	2310.00		NIST Webbook
ripol	2317.00		NIST Webbook
ripol	2327.00		NIST Webbook
ripol	2312.00		NIST Webbook
ripol	2344.00		NIST Webbook
ripol	2310.00		NIST Webbook
tb	610.05	K	Joback Method
tc	782.91	K	Joback Method
tf	305.72	K	Joback Method
vc	0.585	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	402.74	J/mol×K	610.05	Joback Method
cpg	413.76	J/mol×K	638.86	Joback Method
cpg	424.19	J/mol×K	667.67	Joback Method
cpg	434.07	J/mol×K	696.48	Joback Method
cpg	443.45	J/mol×K	725.29	Joback Method
cpg	452.35	J/mol×K	754.10	Joback Method
cpg	460.83	J/mol×K	782.91	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=C103619063&Units=SI

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
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