

3,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-

Other names:	Isogeraniol (3Z)-3,7-Dimethyl-3,6-octadien-1-ol cis-Isogeraniol (Z)-iso-Geraniol
Inchi:	InChI=1S/C10H18O/c1-9(2)5-4-6-10(3)7-8-11/h5-6,11H,4,7-8H2,1-3H3/b10-6-
InchiKey:	DTHIOPUFUOMHAY-POHAHGRESA-N
Formula:	C10H18O
SMILES:	<chem>CC(C)=CCC=C(C)CCO</chem>
Mol. weight [g/mol]:	154.25
CAS:	5944-20-7

Physical Properties

Property code	Value	Unit	Source
gf	39.84	kJ/mol	Joback Method
hf	-187.10	kJ/mol	Joback Method
hfus	23.53	kJ/mol	Joback Method
hvap	54.61	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.671		Crippen Method
mcvol	149.030	ml/mol	McGowan Method
pc	2571.50	kPa	Joback Method
ripol	1273.00		NIST Webbook
ripol	1222.00		NIST Webbook
ripol	1248.00		NIST Webbook
ripol	1237.00		NIST Webbook
ripol	1232.00		NIST Webbook
ripol	1782.00		NIST Webbook
ripol	1820.00		NIST Webbook
ripol	1820.00		NIST Webbook
ripol	1820.00		NIST Webbook
ripol	1828.00		NIST Webbook
ripol	1849.00		NIST Webbook
ripol	1782.00		NIST Webbook
ripol	1812.00		NIST Webbook
ripol	1828.00		NIST Webbook
tb	528.46	K	Joback Method
tc	705.46	K	Joback Method

tf	225.20	K	Joback Method
vc	0.577	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.44	J/mol×K	528.46	Joback Method
cpg	357.23	J/mol×K	557.96	Joback Method
cpg	369.40	J/mol×K	587.46	Joback Method
cpg	380.97	J/mol×K	616.96	Joback Method
cpg	391.97	J/mol×K	646.46	Joback Method
cpg	402.45	J/mol×K	675.96	Joback Method
cpg	412.43	J/mol×K	705.46	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=C5944207&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ripol:	Non-polar retention indices
ripol:	Polar retention indices

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

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