

«gamma»-Vetivene

Inchi:	InChI=1S/C15H24/c1-9(2)13-7-14-10(3)11-4-5-12(6-11)15(14)8-13/h9,11-13,15H,4-8H2,
InchiKey:	ZKHPUZPLMIENMT-HJZMNPPUSA-N
Formula:	C15H24
SMILES:	CC1=C2CC(C(C)C)CC2C2CCC1C2
Mol. weight [g/mol]:	204.35

Physical Properties

Property code	Value	Unit	Source
gf	234.02	kJ/mol	Joback Method
hf	-137.63	kJ/mol	Joback Method
hfus	22.80	kJ/mol	Joback Method
hvap	49.99	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	4.415		Crippen Method
mvol	185.330	ml/mol	McGowan Method
pc	1998.33	kPa	Joback Method
rinpol	1558.00		NIST Webbook
rinpol	1533.00		NIST Webbook
tb	575.37	K	Joback Method
tc	789.31	K	Joback Method
tf	312.15	K	Joback Method
vc	0.710	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	506.64	J/molxK	575.37	Joback Method
cpg	529.42	J/molxK	611.03	Joback Method
cpg	550.80	J/molxK	646.68	Joback Method
cpg	570.86	J/molxK	682.34	Joback Method
cpg	589.68	J/molxK	718.00	Joback Method
cpg	607.37	J/molxK	753.65	Joback Method
cpg	624.01	J/molxK	789.31	Joback Method
dvisc	0.0016734	Paxs	312.15	Joback Method

dvisc	0.0015500	Paxs	356.02	Joback Method
dvisc	0.0014601	Paxs	399.89	Joback Method
dvisc	0.0013918	Paxs	443.76	Joback Method
dvisc	0.0013381	Paxs	487.63	Joback Method
dvisc	0.0012949	Paxs	531.50	Joback Method
dvisc	0.0012594	Paxs	575.37	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=R405060&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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