Geranyl ethyl ether, # 1

Other names:	Geranyl ethyl ether, # 2
	Geranylethyl ether
	1-ethoxy-3,7-dimethylocta-2,6-diene
Inchi:	InChI=1S/C12H22O/c1-5-13-10-9-12(4)8-6-7-11(2)3/h7,9H,5-6,8,10H2,1-4H3/b12-9+
InchiKey:	LOUIMJFJROISMD-FMIVXFBMSA-N
Formula:	C12H22O
SMILES:	CCOCC=C(C)CCC=C(C)C
Mol. weight [g/mol]:	182.30
CAS:	40267-72-9

Physical Properties

Property code	Value	Unit	Source
gf	88.50	kJ/mol	Joback Method
hf	-208.37	kJ/mol	Joback Method
hfus	25.81	kJ/mol	Joback Method
hvap	44.79	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.716		Crippen Method
mcvol	177.210	ml/mol	McGowan Method
pc	1935.54	kPa	Joback Method
rinpol	1255.00		NIST Webbook
rinpol	1275.00		NIST Webbook
ripol	1484.00		NIST Webbook
ripol	1506.00		NIST Webbook
ripol	1476.00		NIST Webbook
ripol	1519.00		NIST Webbook
tb	504.46	K	Joback Method
tc	685.53	K	Joback Method
tf	209.15	K	Joback Method
vc	0.688	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	401.82	J/mol×K	504.46	Joback Method
cpg	418.27	J/mol×K	534.64	Joback Method
cpg	433.98	J/mol×K	564.82	Joback Method
cpg	448.97	J/mol×K	595.00	Joback Method
cpg	463.28	J/mol×K	625.17	Joback Method
cpg	476.92	J/mol×K	655.35	Joback Method
cpg	489.94	J/mol×K	685.53	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=C40267729&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
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