Verbenyl propyl ether

Other names: Verbenol propyl ether
Inchi: InChI=1S/C13H22O/c1-5-6-14-12-7-9(2)10-8-11(12)13(10,3)4/h7,10-12H,5-6,8H2,1-4H3
InchiKey: GREQYBWLTCPCAU-UHFFFAOYSA-N
Formula: C13H22O
SMILES: CCCOC1C=C(C)C2CC1C2(C)C
Mol. weight [g/mol]: 194.31

Physical Properties

Property code	Value	Unit	Source
gf	62.40	kJ/mol	Joback Method
hf	-283.56	kJ/mol	Joback Method
hfus	21.46	kJ/mol	Joback Method
hvap	46.12	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	3.404		Crippen Method
mcvol	173.880	ml/mol	McGowan Method
pc	2069.88	kPa	Joback Method
rinpol	1302.00		NIST Webbook
tb	532.05	K	Joback Method
tc	730.96	K	Joback Method
tf	319.56	K	Joback Method
vc	0.669	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	443.22	J/mol×K	532.05	Joback Method
cpg	462.70	J/mol×K	565.20	Joback Method
cpg	481.09	J/mol×K	598.35	Joback Method
cpg	498.48	J/mol×K	631.50	Joback Method
cpg	515.00	J/mol×K	664.65	Joback Method
cpg	530.73	J/mol×K	697.80	Joback Method
cpg	545.79	J/mol×K	730.96	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U108772&Units=SI
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume