7-ethoxy-3,7-dimethyl-1,5-octadien-3-ol

Other names: 3,7-Dimethyl-1,5-octadien-7-ethoxy-3-ol
Inchi: InChI=1S/C12H22O2/c1-6-12(5,13)10-8-9-11(3,4)14-7-2/h6,8-9,13H,1,7,10H2,2-5H3/b9-
InchiKey: IPSITHRBRXCRLC-CMDGGOBGSA-N
Formula: C12H22O2
SMILES: C=CC(C)(O)CC=CC(C)(C)OCC
Mol. weight [g/mol]: 198.30

Physical Properties

Property code	Value	Unit	Source
gf	-17.92	kJ/mol	Joback Method
hf	-350.31	kJ/mol	Joback Method
hfus	16.21	kJ/mol	Joback Method
hvap	58.09	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	2.685		Crippen Method
mcvol	183.080	ml/mol	McGowan Method
pc	2137.41	kPa	Joback Method
ripol	1725.00		NIST Webbook
tb	582.94	K	Joback Method
tc	764.96	K	Joback Method
tf	306.05	K	Joback Method
vc	0.683	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	472.21	J/mol×K	582.94	Joback Method
cpg	487.03	J/mol×K	613.28	Joback Method
cpg	501.01	J/mol×K	643.61	Joback Method
cpg	514.20	J/mol×K	673.95	Joback Method
cpg	526.66	J/mol×K	704.29	Joback Method
cpg	538.42	J/mol×K	734.63	Joback Method
cpg	549.54	J/mol×K	764.96	Joback Method
dvisc	0.0139126	Pa×s	306.05	Joback Method

dvisc	0.0028857	Pa×s	352.20	Joback Method
dvisc	0.0008617	Pa×s	398.35	Joback Method
dvisc	0.0003307	Pa×s	444.50	Joback Method
dvisc	0.0001520	Pa×s	490.64	Joback Method
dvisc	0.0000798	Pa×s	536.79	Joback Method
dvisc	0.0000464	Pa×s	582.94	Joback Method

Sources

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=R324144&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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