3-Ethoxy-8,8-dimethyl-2-oxa-bicyclo[4.2.0]octan-7

Inchi: InChI=1S/C11H18O3/c1-4-13-8-6-5-7-9(12)11(2,3)10(7)14-8/h7-8,10H,4-6H2,1-3H3
InchiKey: CAGOHOMLBFMCCX-UHFFFAOYSA-N
Formula: C11H18O3
SMILES: CCOC1CCC2C(=O)C(C)(C)C2O1
Mol. weight [g/mol]: 198.26
CAS: 92188-81-3

Physical Properties

Property code	Value	Unit	Source
gf	-195.58	kJ/mol	Joback Method
hf	-564.45	kJ/mol	Joback Method
hfus	20.84	kJ/mol	Joback Method
hvap	49.65	kJ/mol	Joback Method
log10ws	-1.91		Crippen Method
logp	1.753		Crippen Method
mcvol	157.440	ml/mol	McGowan Method
pc	2561.10	kPa	Joback Method
tb	581.19	K	Joback Method
tc	803.33	K	Joback Method
tf	375.01	K	Joback Method
vc	0.592	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.85	J/mol×K	581.19	Joback Method
cpg	452.93	J/mol×K	618.21	Joback Method
cpg	470.99	J/mol×K	655.24	Joback Method
cpg	488.13	J/mol×K	692.26	Joback Method
cpg	504.43	J/mol×K	729.28	Joback Method
cpg	519.99	J/mol×K	766.31	Joback Method
cpg	534.93	J/mol×K	803.33	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=C92188813&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume