Ethyl 2-(ethoxycarbonyloxy)ethylcarbamate

Inchi: InChI=1S/C8H15NO5/c1-3-12-7(10)9-5-6-14-8(11)13-4-2/h3-6H2,1-2H3,(H,9,10)
InchiKey: RNKONMRLELFAOU-UHFFFAOYSA-N
Formula: C8H15NO5
SMILES: CCOC(=O)NCCOC(=O)OCC
Mol. weight [g/mol]: 205.21

Physical Properties

Property code	Value	Unit	Source
gf	-466.97	kJ/mol	Joback Method
hf	-776.80	kJ/mol	Joback Method
hfus	28.34	kJ/mol	Joback Method
hvap	60.56	kJ/mol	Joback Method
log10ws	-1.13		Crippen Method
logp	0.906		Crippen Method
mcvol	154.310	ml/mol	McGowan Method
pc	2775.92	kPa	Joback Method
rinpol	1452.00		NIST Webbook
tb	607.61	K	Joback Method
tc	792.02	K	Joback Method
tf	399.13	K	Joback Method
vc	0.585	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.00	J/mol×K	607.61	Joback Method
cpg	405.69	J/mol×K	638.34	Joback Method
cpg	416.89	J/mol×K	669.08	Joback Method
cpg	427.59	J/mol×K	699.81	Joback Method
cpg	437.77	J/mol×K	730.55	Joback Method
cpg	447.42	J/mol×K	761.28	Joback Method
cpg	456.52	J/mol×K	792.02	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=U373790&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
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