Propyl 2-(propoxycarbonyloxy)ethylcarbamate

Inchi: InChI=1S/C10H19NO5/c1-3-6-14-9(12)11-5-8-16-10(13)15-7-4-2/h3-8H2,1-2H3,(H,11,12
InchiKey: GWVOCTWBRVRWEG-UHFFFAOYSA-N
Formula: C10H19NO5
SMILES: CCCOC(=O)NCCOC(=O)OCCC
Mol. weight [g/mol]: 233.26

Physical Properties

Property code	Value	Unit	Source
gf	-450.13	kJ/mol	Joback Method
hf	-818.08	kJ/mol	Joback Method
hfus	33.52	kJ/mol	Joback Method
hvap	65.01	kJ/mol	Joback Method
log10ws	-1.97		Crippen Method
logp	1.686		Crippen Method
mcvol	182.490	ml/mol	McGowan Method
pc	2289.32	kPa	Joback Method
rinpol	1643.00		NIST Webbook
rinpol	1643.00		NIST Webbook
tb	653.37	K	Joback Method
tc	834.89	K	Joback Method
tf	421.67	K	Joback Method
vc	0.697	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	493.74	J/mol×K	653.37	Joback Method
cpg	506.84	J/mol×K	683.62	Joback Method
cpg	519.34	J/mol×K	713.88	Joback Method
cpg	531.23	J/mol×K	744.13	Joback Method
cpg	542.49	J/mol×K	774.38	Joback Method
cpg	553.11	J/mol×K	804.64	Joback Method
cpg	563.08	J/mol×K	834.89	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=U373845&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume