1-Decanol, carbamate

Inchi: InChI=1S/C11H23NO2/c1-2-3-4-5-6-7-8-9-10-14-11(12)13/h2-10H2,1H3,(H2,12,13)
InchiKey: ANWCICBGKAHUEY-UHFFFAOYSA-N
Formula: C11H23NO2
SMILES: CCCCCCCCCCOC(N)=O
Mol. weight [g/mol]: 201.31

Physical Properties

Property code	Value	Unit	Source
gf	-125.73	kJ/mol	Joback Method
hf	-481.38	kJ/mol	Joback Method
hfus	32.23	kJ/mol	Joback Method
hvap	59.88	kJ/mol	Joback Method
log10ws	-3.70		Crippen Method
logp	3.222		Crippen Method
mcvol	183.270	ml/mol	McGowan Method
pc	2121.68	kPa	Joback Method
rinpol	1568.00		NIST Webbook
tb	599.90	K	Joback Method
tc	780.35	K	Joback Method
tf	369.15	K	Joback Method
vc	0.705	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	482.55	J/mol×K	599.90	Joback Method
cpg	497.44	J/mol×K	629.97	Joback Method
cpg	511.66	J/mol×K	660.05	Joback Method
cpg	525.25	J/mol×K	690.12	Joback Method
cpg	538.20	J/mol×K	720.20	Joback Method
cpg	550.53	J/mol×K	750.27	Joback Method
cpg	562.24	J/mol×K	780.35	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R579374&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