Ethanol, 2-(diethylamino)-, acetate

Other names: 2-(diethylamino)ethyl acetate
Inchi: InChI=1S/C8H17NO2/c1-4-9(5-2)6-7-11-8(3)10/h4-7H2,1-3H3
InchiKey: IDIFJUBLWASPDU-UHFFFAOYSA-N
Formula: C8H17NO2
SMILES: CCN(CC)CCOC(C)=O
Mol. weight [g/mol]: 159.23
CAS: 10369-82-1

Physical Properties

Property code	Value	Unit	Source
gf	-106.66	kJ/mol	Joback Method
hf	-385.72	kJ/mol	Joback Method
hfus	22.28	kJ/mol	Joback Method
hvap	44.60	kJ/mol	Joback Method
log10ws	-0.60		Crippen Method
logp	0.891		Crippen Method
mcvol	141.000	ml/mol	McGowan Method
pc	2651.56	kPa	Joback Method
rinpol	1040.00		NIST Webbook
tb	471.17	K	Joback Method
tc	644.54	K	Joback Method
tf	284.55	K	Joback Method
vc	0.525	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.58	J/mol×K	471.17	Joback Method
cpg	324.71	J/mol×K	500.07	Joback Method
cpg	337.33	J/mol×K	528.96	Joback Method
cpg	349.43	J/mol×K	557.86	Joback Method
cpg	361.05	J/mol×K	586.75	Joback Method
cpg	372.17	J/mol×K	615.65	Joback Method
cpg	382.81	J/mol×K	644.54	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10369821&Units=SI

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