Acetic acid, 2-(dimethylamino)ethyl ester

Other names:	Dimethylaminoethanol acetate
	Dimethylaminoethyl acetate
	2-(Dimethylamino)ethyl acetate
	2-Dimethylaminoethanol acetate
	CH3C(O)O(CH2)2N(CH3)2
Inchi:	InChI=1S/C6H13NO2/c1-6(8)9-5-4-7(2)3/h4-5H2,1-3H3
InchiKey:	GOLSFPMYASLXJC-UHFFFAOYSA-N
Formula:	C6H13NO2
SMILES:	CC(=O)OCCN(C)C
Mol. weight [g/mol]:	131.17
CAS:	1421-89-2

Physical Properties

Property code	Value	Unit	Source
gf	-123.50	kJ/mol	Joback Method
hf	-344.44	kJ/mol	Joback Method
hfus	17.10	kJ/mol	Joback Method
hvap	40.15	kJ/mol	Joback Method
log10ws	0.23		Crippen Method
logp	0.111		Crippen Method
mcvol	112.820	ml/mol	McGowan Method
pc	3265.31	kPa	Joback Method
tb	425.41	K	Joback Method
tc	601.33	K	Joback Method
tf	262.01	K	Joback Method
vc	0.413	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.57	J/mol×K	425.41	Joback Method
cpg	239.56	J/mol×K	454.73	Joback Method
cpg	250.14	J/mol×K	484.05	Joback Method
cpg	260.32	J/mol×K	513.37	Joback Method

cpg	270.09	J/mol×K	542.69	Joback Method
cpg	279.47	J/mol×K	572.01	Joback Method
cpg	288.45	J/mol×K	601.33	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1421892&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

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