Morpholine, 3,5-dimethyl-

Inchi: InChI=1S/C6H13NO/c1-5-3-8-4-6(2)7-5/h5-7H,3-4H2,1-2H3
InchiKey: MDKHWJFKHDRFFZ-UHFFFAOYSA-N
Formula: C6H13NO
SMILES: CC1COCC(C)N1
Mol. weight [g/mol]: 115.17
CAS: 123-57-9

Physical Properties

Property code	Value	Unit	Source
gf	17.97	kJ/mol	Joback Method
hf	-227.38	kJ/mol	Joback Method
hfus	21.77	kJ/mol	Joback Method
hvap	40.34	kJ/mol	Joback Method
log10ws	-0.73		Crippen Method
logp	0.383		Crippen Method
mcvol	100.390	ml/mol	McGowan Method
pc	3877.12	kPa	Joback Method
tb	427.06	K	Joback Method
tc	640.31	K	Joback Method
tf	292.12	K	Joback Method
vc	0.361	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.63	J/mol×K	427.06	Joback Method
cpg	219.82	J/mol×K	462.60	Joback Method
cpg	234.36	J/mol×K	498.14	Joback Method
cpg	248.27	J/mol×K	533.68	Joback Method
cpg	261.53	J/mol×K	569.23	Joback Method
cpg	274.16	J/mol×K	604.77	Joback Method
cpg	286.14	J/mol×K	640.31	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=C123579&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume