Piperidine, 4-(2-aminoethyl)

Inchi: InChI=1S/C7H16N2/c8-4-1-7-2-5-9-6-3-7/h7,9H,1-6,8H2
InchiKey: PXJBCMWIAPDWAU-UHFFFAOYSA-N
Formula: C7H16N2
SMILES: NCCC1CCNCC1
Mol. weight [g/mol]: 128.22

Physical Properties

Property code	Value	Unit	Source
gf	186.67	kJ/mol	Joback Method
hf	-61.89	kJ/mol	Joback Method
hfus	20.51	kJ/mol	Joback Method
hvap	49.00	kJ/mol	Joback Method
log10ws	-1.03		Crippen Method
logp	0.335		Crippen Method
mcvol	118.590	ml/mol	McGowan Method
pc	3891.64	kPa	Joback Method
ripol	1785.00		NIST Webbook
tb	500.19	K	Joback Method
tc	724.24	K	Joback Method
tf	364.32	K	Joback Method
vc	0.426	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	276.40	J/mol×K	500.19	Joback Method
cpg	293.24	J/mol×K	537.53	Joback Method
cpg	309.18	J/mol×K	574.87	Joback Method
cpg	324.23	J/mol×K	612.22	Joback Method
cpg	338.41	J/mol×K	649.56	Joback Method
cpg	351.75	J/mol×K	686.90	Joback Method
cpg	364.26	J/mol×K	724.24	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=R8509&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume