Acetohydroxamic acid, 2-amino-

Inchi: InChI=1S/C2H6N2O2/c3-1-2(5)4-6/h6H,1,3H2,(H,4,5)
InchiKey: VDBCTDQYMZSQFQ-UHFFFAOYSA-N
Formula: C2H6N2O2
SMILES: NCC(=O)NO
Mol. weight [g/mol]: 90.08
CAS: 5349-80-4

Physical Properties

Property code	Value	Unit	Source
gf	-143.94	kJ/mol	Joback Method
hf	-262.16	kJ/mol	Joback Method
hfus	16.92	kJ/mol	Joback Method
hvap	60.55	kJ/mol	Joback Method
log10ws	1.29		Crippen Method
logp	-1.550		Crippen Method
mcvol	66.440	ml/mol	McGowan Method
pc	7121.37	kPa	Joback Method
tb	513.91	K	Joback Method
tc	705.74	K	Joback Method
tf	358.97	K	Joback Method
vc	0.236	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	147.55	J/mol×K	513.91	Joback Method
cpg	152.89	J/mol×K	545.88	Joback Method
cpg	157.97	J/mol×K	577.85	Joback Method
cpg	162.79	J/mol×K	609.83	Joback Method
cpg	167.35	J/mol×K	641.80	Joback Method
cpg	171.67	J/mol×K	673.77	Joback Method
cpg	175.74	J/mol×K	705.74	Joback Method

Sources

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=C5349804&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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