

Acetohydroxamic acid

Other names:	Acetamide, N-hydroxy- Acetic acid, oxime Acetohydroximic acid Acetylhydroxamic acid AHA N-Hydroxyacetamide Hydroxylamine, N-acetyl- Methylhydroxamic acid Acethydroxamsaeure Lithostat Acetohydroxamic acid N-Acetylhydroxylamine NSC 176136 Acetyl hydroxyamine
Inchi:	InChI=1S/C2H5NO2/c1-2(4)3-5/h5H,1H3,(H,3,4)
InchiKey:	RRUDCFGSUDOH DG-UHFFFAOYSA-N
Formula:	C2H5NO2
SMILES:	CC(=O)NO
Mol. weight [g/mol]:	75.07
CAS:	546-88-3

Physical Properties

Property code	Value	Unit	Source
affp	854.00	kJ/mol	NIST Webbook
basg	823.00	kJ/mol	NIST Webbook
gf	-210.39	kJ/mol	Joback Method
hf	-295.95	kJ/mol	Joback Method
hfus	11.72	kJ/mol	Joback Method
hvap	49.91	kJ/mol	Joback Method
log10ws	0.72		Crippen Method
logp	-0.488		Crippen Method
mcvol	56.460	ml/mol	McGowan Method
pc	6482.71	kPa	Joback Method
tb	441.38	K	Joback Method
tc	621.65	K	Joback Method
tf	275.71	K	Joback Method
vc	0.207	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	108.08	J/mol×K	441.38	Joback Method
cpg	112.84	J/mol×K	471.43	Joback Method
cpg	117.40	J/mol×K	501.47	Joback Method
cpg	121.75	J/mol×K	531.52	Joback Method
cpg	125.92	J/mol×K	561.56	Joback Method
cpg	129.89	J/mol×K	591.61	Joback Method
cpg	133.68	J/mol×K	621.65	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C546883&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

affp:	Proton affinity
basg:	Gas basicity
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

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