Acetic acid, hydrazide

Other names:	Acethydrazide
	Acetohydrazide
	Acetyl hydrazide
	Acetylhydrazine
	Ethanehydrazonic acid
	ENT-61241
	Hydrazine, acetyl-
	Monoacetylhydrazine
	N-Acetylhydrazine
	NSC 53155
	374
	Acetic hydrazide
	Hydrazid kyseliny octove
	Acetohydrazine
	NSC 2271
Inchi:	InChI=1S/C2H6N2O/c1-2(5)4-3/h3H2,1H3,(H,4,5)
InchiKey:	OFLXLNCGODUUOT-UHFFFAOYSA-N
Formula:	C2H6N2O
SMILES:	CC(=O)NN
Mol. weight [g/mol]:	74.08
CAS:	1068-57-1

Physical Properties

Property code	Value	Unit	Source
gf	-7.12	kJ/mol	Joback Method
hf	-109.93	kJ/mol	Joback Method
hfus	12.83	kJ/mol	Joback Method
hvap	43.87	kJ/mol	Joback Method
log10ws	-0.05		Crippen Method
logp	-1.004		Crippen Method
mcvol	60.570	ml/mol	McGowan Method
pc	6132.23	kPa	Joback Method
tb	421.73	K	Joback Method
tc	624.80	K	Joback Method
tf	298.15	K	Joback Method
vc	0.217	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	115.61	J/mol×K	421.73	Joback Method
cpg	121.68	J/mol×K	455.58	Joback Method
cpg	127.47	J/mol×K	489.42	Joback Method
cpg	132.99	J/mol×K	523.27	Joback Method
cpg	138.23	J/mol×K	557.11	Joback Method
cpg	143.20	J/mol×K	590.96	Joback Method
cpg	147.92	J/mol×K	624.80	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	402.20	K	2.40	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1068571&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume