3-Aminobenzhydrazide

Other names:	m-Amino benzhydrazide
	Benzoic acid, 3-amino-, hydrazide
	m-aminobenzohydrazide
Inchi:	InChI=1S/C7H9N3O/c8-6-3-1-2-5(4-6)7(11)10-9/h1-4H,8-9H2,(H,10,11)
InchiKey:	JSIVTKBYJLGBPY-UHFFFAOYSA-N
Formula:	C7H9N3O
SMILES:	NNC(=O)c1cccc(N)c1
Mol. weight [g/mol]:	151.17
CAS:	14062-34-1

Physical Properties

Property code	Value	Unit	Source
gf	204.21	kJ/mol	Joback Method
hf	45.72	kJ/mol	Joback Method
hfus	24.63	kJ/mol	Joback Method
hvap	68.58	kJ/mol	Joback Method
log10ws	-1.46		Crippen Method
logp	-0.128		Crippen Method
mcvol	117.240	ml/mol	McGowan Method
pc	5220.69	kPa	Joback Method
tb	640.32	K	Joback Method
tc	884.69	K	Joback Method
tf	476.70	K	Joback Method
vc	0.418	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	291.53	J/mol×K	640.32	Joback Method
cpg	301.70	J/mol×K	681.05	Joback Method
cpg	311.08	J/mol×K	721.78	Joback Method
cpg	319.69	J/mol×K	762.50	Joback Method
cpg	327.57	J/mol×K	803.23	Joback Method
cpg	334.78	J/mol×K	843.96	Joback Method

cpg	341.34	J/mol×K	884.69	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=C14062341&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume