3-Hydroxybenzhydrazide

Other names:	m-Hydroxybenzhydrazide
	Benzoic acid, 3-hydroxy-, hydrazide
	m-hydroxybenzohydrazide
Inchi:	InChI=1S/C7H8N2O2/c8-9-7(11)5-2-1-3-6(10)4-5/h1-4,10H,8H2,(H,9,11)
InchiKey:	OACGSLLKFCMXSX-UHFFFAOYSA-N
Formula:	C7H8N2O2
SMILES:	NNC(=O)c1cccc(O)c1
Mol. weight [g/mol]:	152.15
CAS:	5818-06-4

Physical Properties

Property code	Value	Unit	Source
gf	-7.23	kJ/mol	Joback Method
hf	-153.91	kJ/mol	Joback Method
hfus	25.61	kJ/mol	Joback Method
hvap	70.29	kJ/mol	Joback Method
log10ws	-1.37		Crippen Method
logp	-0.004		Crippen Method
mcvol	113.130	ml/mol	McGowan Method
pc	6132.23	kPa	Joback Method
tb	643.43	K	Joback Method
tc	889.21	K	Joback Method
tf	492.64	K	Joback Method
vc	0.355	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.79	J/mol×K	643.43	Joback Method
cpg	292.93	J/mol×K	684.39	Joback Method
cpg	301.33	J/mol×K	725.36	Joback Method
cpg	309.10	J/mol×K	766.32	Joback Method
cpg	316.34	J/mol×K	807.28	Joback Method
cpg	323.14	J/mol×K	848.25	Joback Method

cpg	329.62	J/mol×K	889.21	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5818064&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume