Benzoic acid, 4-hydroxy-, hydrazide

Other names:	Benzoic acid, p-hydroxy-, hydrazide
	(p-Hydroxybenzoyl)hydrazine
	(4-Hydroxybenzoyl)hydrazine
	p-Hydroxybenzhydrazide
	p-Hydroxybenzoic acid hydrazide
	p-Hydroxybenzoic hydrazide
	4-Hydroxybenzohydrazide
	4-Hydroxybenzoic acid hydrazide
	para-Hydroxybenzoic acid hydrazide
	4-Hydroxybenzhydrazide
	NSC 647
	p-Hydroxybenzoyl hydrazide
Inchi:	InChI=1S/C7H8N2O2/c8-9-7(11)5-1-3-6(10)4-2-5/h1-4,10H,8H2,(H,9,11)
InchiKey:	ZMZGIVVRBMFZSG-UHFFFAOYSA-N
Formula:	C7H8N2O2
SMILES:	NNC(=O)c1ccc(O)cc1
Mol. weight [g/mol]:	152.15
CAS:	5351-23-5

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=C5351235&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