

Glycine, N-(2-hydroxybenzoyl)-

Other names:

Hippuric acid, o-hydroxy-
o-Hydroxyhippuric acid
N-Salicyloylglycine
Salicyloylglycine
Salicyluric acid
2-Hydroxybenzoylglycine
ortho-Hydroxyhippuric acid
N-o-Hydroxybenzoylglycine
[(2-Hydroxybenzoyl)amino]acetic acid
2-Hydroxyhippuric acid
N-(2-Hydroxybenzoyl)glycine
NSC 524135

Inchi:

InChI=1S/C9H9NO4/c11-7-4-2-1-3-6(7)9(14)10-5-8(12)13/h1-4,11H,5H2,(H,10,14)(H,12,

InchiKey:

ONJSZLXSECQROL-UHFFFAOYSA-N

Formula:

C9H9NO4

SMILES:

O=C(O)CNC(=O)c1ccccc1O

Mol. weight [g/mol]:

195.17

CAS:

487-54-7

Physical Properties

Property code	Value	Unit	Source
gf	-322.58	kJ/mol	Joback Method
hf	-493.79	kJ/mol	Joback Method
hfus	31.28	kJ/mol	Joback Method
hvap	87.52	kJ/mol	Joback Method
log10ws	-0.88		Crippen Method
logp	0.207		Crippen Method
mcvol	138.770	ml/mol	McGowan Method
pc	5320.16	kPa	Joback Method
tb	762.71	K	Joback Method
tc	981.15	K	Joback Method
tf	542.67	K	Joback Method
vc	0.464	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	376.23	J/molxK	762.71	Joback Method
cpg	384.12	J/molxK	799.12	Joback Method
cpg	391.54	J/molxK	835.52	Joback Method
cpg	398.56	J/molxK	871.93	Joback Method
cpg	405.25	J/molxK	908.34	Joback Method
cpg	411.69	J/molxK	944.74	Joback Method
cpg	417.95	J/molxK	981.15	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C487547&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307i
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

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