N-Hydroxybenzenesulfonamide

Other names:	Benzenesulfonamide, N-hydroxy- Benzenesulfohydroxamic acid Benzsulfohydroxamic acid Hydroxamic acid, benzsulfo- Hydroxylamine, N-(phenylsulfonyl)- N-(Phenylsulfonyl)hydroxylamine Piloty's acid NSC 45357 benzenesulphonohydroxamic acid
Inchi:	InChI=1S/C6H7NO3S/c8-7-11(9,10)6-4-2-1-3-5-6/h1-5,8H,(H,7,9,10)
InchiKey:	YLPKZWIICGKCEA-UHFFFAOYSA-N
Formula:	C6H7NO3S
SMILES:	O=S(O)(=NO)c1ccccc1
Mol. weight [g/mol]:	173.19
CAS:	599-71-3

Physical Properties

Property code	Value	Unit	Source
hf	-473.04	kJ/mol	Joback Method
hvap	80.79	kJ/mol	Joback Method
log10ws	-0.20		Crippen Method
logp	1.376		Crippen Method
mcvol	115.580	ml/mol	McGowan Method
pc	5343.52	kPa	Joback Method
tb	681.30	K	Joback Method
tc	890.42	K	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=C599713&Units=SI

Legend

hf:	Enthalpy of formation 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