Benzenesulfonic acid, hydrazide

Other names:	Benzenesulfohydrazide
	Benzenesulfonic hydrazide
	Benzenesulfonohydrazide
	Benzenesulfonyl hydrazide
	Benzenesulfonylhydrazine
	Benzensulfonylhydrazine
	Celogen BSH
	ChKhZ 9
	Genitron BSH
	Phenylsulfohydrazide
	Phenylsulfonyl hydrazide
	Phenylsulfonylhydrazine
	Porofor BSH
	Porofor ChKhZ 9
	Porofor-BSH-Pulver
	BSH
	Porofor
	Benzene sulphonohydrazide
	Hydrazide BSG
	Nitropore OBSH
	NSC 643
Inchi:	InChI=1S/C6H8N2O2S/c7-8-11(9,10)6-4-2-1-3-5-6/h1-5,8H,7H2
InchiKey:	VJRITMATACIYAF-UHFFFAOYSA-N
Formula:	C6H8N2O2S
SMILES:	NNS(=O)(=O)c1ccccc1
Mol. weight [g/mol]:	172.21
CAS:	80-17-1

Physical Properties

Property code	Value	Unit	Source
chs	-3607.00	kJ/mol	NIST Webbook
gf	-200.65	kJ/mol	Joback Method
hf	-296.73	kJ/mol	Joback Method
hfus	27.01	kJ/mol	Joback Method
hvap	66.94	kJ/mol	Joback Method
log10ws	-1.35		Crippen Method

logp	-0.161		Crippen Method
mcvol	119.690	ml/mol	McGowan Method
pc	6524.67	kPa	Joback Method
tb	533.84	K	Joback Method
tc	756.16	K	Joback Method
tf	358.28	K	Joback Method
vc	0.454	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.94	J/mol×K	533.84	Joback Method
cpg	273.39	J/mol×K	570.89	Joback Method
cpg	284.06	J/mol×K	607.95	Joback Method
cpg	293.96	J/mol×K	645.00	Joback Method
cpg	303.10	J/mol×K	682.06	Joback Method
cpg	311.50	J/mol×K	719.11	Joback Method
cpg	319.17	J/mol×K	756.16	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=C80171&Units=SI

Legend

chs: Standard solid enthalpy of combustion
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