

3-Methyl-4-aminobenzenesulfonamide

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

InChI=1S/C7H10N2O2S/c1-5-4-6(12(9,10)11)2-3-7(5)8/h2-4H,8H2,1H3,(H2,9,10,11)

IGQGXIVCGKMRAM-UHFFFAOYSA-N

C7H10N2O2S

Cc1cc(S(N)(=O)=O)ccc1N

186.23

53297-70-4

Physical Properties

Property code	Value	Unit	Source
chs	-4166.00	kJ/mol	NIST Webbook
gf	-234.43	kJ/mol	Joback Method
hf	-359.99	kJ/mol	Joback Method
hfs	-620.10	kJ/mol	NIST Webbook
hfus	28.92	kJ/mol	Joback Method
hvap	74.69	kJ/mol	Joback Method
log10ws	-1.28		Crippen Method
logp	0.225		Crippen Method
mcvol	133.780	ml/mol	McGowan Method
pc	5739.21	kPa	Joback Method
tb	589.04	K	Joback Method
tc	818.58	K	Joback Method
tf	425.19	K	Joback Method
vc	0.503	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.36	J/mol×K	589.04	Joback Method
cpg	324.87	J/mol×K	627.30	Joback Method
cpg	335.60	J/mol×K	665.55	Joback Method
cpg	345.57	J/mol×K	703.81	Joback Method
cpg	354.78	J/mol×K	742.07	Joback Method
cpg	363.22	J/mol×K	780.32	Joback Method
cpg	370.90	J/mol×K	818.58	Joback Method

Sources

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=C53297704&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hfs:	Solid phase 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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