

m-Aminobenzenesulfonamide

Other names:	Metaniilamide Benzenesulfonamide, 3-amino- Benzenesulfonamide, m-amino- Metanilamide 3-Aminobenzenesulfonamide m-Aminobenzenesulphonamide
Inchi:	InChI=1S/C6H8N2O2S/c7-5-2-1-3-6(4-5)11(8,9)10/h1-4H,7H2,(H2,8,9,10)
InchiKey:	JPVKCHIPRSQDKL-UHFFFAOYSA-N
Formula:	C6H8N2O2S
SMILES:	Nc1cccc(S(N)(=O)=O)c1
Mol. weight [g/mol]:	172.21
CAS:	98-18-0

Physical Properties

Property code	Value	Unit	Source
chs	-3525.00	kJ/mol	NIST Webbook
gf	-233.22	kJ/mol	Joback Method
hf	-327.88	kJ/mol	Joback Method
hfs	-581.60	kJ/mol	NIST Webbook
hfus	26.72	kJ/mol	Joback Method
hvap	71.81	kJ/mol	Joback Method
log10ws	-0.80		Crippen Method
logp	-0.084		Crippen Method
mcvol	119.690	ml/mol	McGowan Method
pc	6841.44	kPa	Joback Method
tb	561.18	K	Joback Method
tc	794.22	K	Joback Method
tf	413.35 ± 0.30	K	NIST Webbook
vc	0.448	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.49	J/mol×K	561.18	Joback Method

cpg	280.30	J/mol×K	600.02	Joback Method
cpg	290.34	J/mol×K	638.86	Joback Method
cpg	299.63	J/mol×K	677.70	Joback Method
cpg	308.17	J/mol×K	716.54	Joback Method
cpg	315.97	J/mol×K	755.38	Joback Method
cpg	323.03	J/mol×K	794.22	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C98180&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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