2-Amino-4-chlorobenzenesulfonamide

Other names: 2-amino-4-chlorobenzenesulphonamide
Inchi: InChI=1S/C6H7ClN2O2S/c7-4-1-2-6(5(8)3-4)12(9,10)11/h1-3H,8H2,(H2,9,10,11)
InchiKey: HWQDHHCUOZZFIG-UHFFFAOYSA-N
Formula: C6H7ClN2O2S
SMILES: Nc1cc(Cl)ccc1S(N)(=O)=O
Mol. weight [g/mol]: 206.65
CAS: 4140-83-4

Physical Properties

Property code	Value	Unit	Source
gf	-254.78	kJ/mol	Joback Method
hf	-355.09	kJ/mol	Joback Method
hfus	30.53	kJ/mol	Joback Method
hvap	76.85	kJ/mol	Joback Method
log10ws	-1.49		Crippen Method
logp	0.570		Crippen Method
mcvol	131.930	ml/mol	McGowan Method
pc	6288.83	kPa	Joback Method
tb	603.59	K	Joback Method
tc	841.44	K	Joback Method
tf	443.84	K	Joback Method
vc	0.496	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	290.13	J/mol×K	603.59	Joback Method
cpg	299.78	J/mol×K	643.23	Joback Method
cpg	308.70	J/mol×K	682.87	Joback Method
cpg	316.88	J/mol×K	722.52	Joback Method
cpg	324.33	J/mol×K	762.16	Joback Method
cpg	331.05	J/mol×K	801.80	Joback Method
cpg	337.04	J/mol×K	841.44	Joback Method

Sources

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=C4140834&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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