

# 3-Amino-4-chlorobenzenesulfonyl fluoride

<b>Other names:</b>	Benzenesulfonyl fluoride, 3-amino-4-chloro-3-amino-4-chlorobenzenesulphonyl fluoride
<b>Inchi:</b>	InChI=1S/C6H5ClFNO2S/c7-5-2-1-4(3-6(5)9)12(8,10)11/h1-3H,9H2
<b>InchiKey:</b>	HNZYBSQZUOJCDN-UHFFFAOYSA-N
<b>Formula:</b>	C6H5ClFNO2S
<b>SMILES:</b>	Nc1cc(S(=O)(=O)F)ccc1Cl
<b>Mol. weight [g/mol]:</b>	209.63
<b>CAS:</b>	368-72-9

## Physical Properties

Property code	Value	Unit	Source
gf	-516.04	kJ/mol	Joback Method
hf	-584.99	kJ/mol	Joback Method
hfus	28.41	kJ/mol	Joback Method
hvap	65.39	kJ/mol	Joback Method
log10ws	-1.91		Crippen Method
logp	1.580		Crippen Method
mcvol	123.720	ml/mol	McGowan Method
pc	5382.80	kPa	Joback Method
tb	530.33	K	Joback Method
tc	748.18	K	Joback Method
tf	361.17	K	Joback Method
vc	0.485	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.17	J/molxK	530.33	Joback Method
cpg	259.36	J/molxK	566.64	Joback Method
cpg	267.99	J/molxK	602.95	Joback Method
cpg	276.04	J/molxK	639.25	Joback Method
cpg	283.52	J/molxK	675.56	Joback Method
cpg	290.43	J/molxK	711.87	Joback Method
cpg	296.76	J/molxK	748.18	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C368729&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C368729&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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