

# 2-Fluorobenzenesulphonyl chloride

<b>Inchi:</b>	InChI=1S/C6H4ClFO2S/c7-11(9,10)6-4-2-1-3-5(6)8/h1-4H
<b>InchiKey:</b>	ZSZKAQCISWFDCQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H4ClFO2S
<b>SMILES:</b>	O=S(=O)(Cl)c1ccccc1F
<b>Mol. weight [g/mol]:</b>	194.61
<b>CAS:</b>	2905-21-7

## Physical Properties

Property code	Value	Unit	Source
gf	-572.86	kJ/mol	Joback Method
hf	-607.31	kJ/mol	Joback Method
hfus	23.60	kJ/mol	Joback Method
hvap	54.09	kJ/mol	Joback Method
log10ws	-2.22		Crippen Method
logp	1.753		Crippen Method
mcvol	113.740	ml/mol	McGowan Method
pc	5065.79	kPa	Joback Method
tb	452.82	K	Joback Method
tc	658.24	K	Joback Method
tf	265.39	K	Joback Method
vc	0.457	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.18	J/molxK	452.82	Joback Method
cpg	212.49	J/molxK	487.06	Joback Method
cpg	221.29	J/molxK	521.29	Joback Method
cpg	229.57	J/molxK	555.53	Joback Method
cpg	237.35	J/molxK	589.77	Joback Method
cpg	244.62	J/molxK	624.00	Joback Method
cpg	251.38	J/molxK	658.24	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2905217&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2905217&amp;Units=SI</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>hvap:</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>mccvol:</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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