

# P-fluorobenzenesulfonamide

<b>Other names:</b>	p-fluorobenzenesulphonamide
<b>Inchi:</b>	InChI=1S/C6H6FNO2S/c7-5-1-3-6(4-2-5)11(8,9)10/h1-4H,(H2,8,9,10)
<b>InchiKey:</b>	LFLSATHZMYYYIAQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H6FNO2S
<b>SMILES:</b>	NS(=O)(=O)c1ccc(F)cc1
<b>Mol. weight [g/mol]:</b>	175.18
<b>CAS:</b>	402-46-0

## Physical Properties

Property code	Value	Unit	Source
gf	-494.48	kJ/mol	Joback Method
hf	-557.78	kJ/mol	Joback Method
hfus	24.60	kJ/mol	Joback Method
hvap	60.35	kJ/mol	Joback Method
log10ws	-1.50		Crippen Method
logp	0.473		Crippen Method
mcvol	111.480	ml/mol	McGowan Method
pc	5818.28	kPa	Joback Method
tb	487.92	K	Joback Method
tc	699.38	K	Joback Method
tf	318.73	K	Joback Method
vc	0.436	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.96	J/molxK	487.92	Joback Method
cpg	238.17	J/molxK	523.16	Joback Method
cpg	247.79	J/molxK	558.41	Joback Method
cpg	256.82	J/molxK	593.65	Joback Method
cpg	265.27	J/molxK	628.90	Joback Method
cpg	273.13	J/molxK	664.14	Joback Method
cpg	280.41	J/molxK	699.38	Joback Method

# Sources

<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=C402460&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C402460&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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>h vap:</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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