

# 4-Aminophenyl trifluoromethyl sulfone

<b>Inchi:</b>	InChI=1S/C7H6F3NO2S/c8-7(9,10)14(12,13)6-3-1-5(11)2-4-6/h1-4H,11H2
<b>InchiKey:</b>	GNVFCXUZQGCPB-UHFFFAOYSA-N
<b>Formula:</b>	C7H6F3NO2S
<b>SMILES:</b>	Nc1ccc(S(=O)(=O)C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	225.19
<b>CAS:</b>	473-27-8

## Physical Properties

Property code	Value	Unit	Source
gf	-872.84	kJ/mol	Joback Method
hf	-979.39	kJ/mol	Joback Method
hfus	25.94	kJ/mol	Joback Method
hvap	59.64	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.562		Crippen Method
mcvol	129.110	ml/mol	McGowan Method
pc	4577.74	kPa	Joback Method
tb	506.11	K	Joback Method
tc	706.11	K	Joback Method
tf	333.60	K	Joback Method
vc	0.517	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	289.77	J/molxK	506.11	Joback Method
cpg	300.87	J/molxK	539.44	Joback Method
cpg	311.21	J/molxK	572.78	Joback Method
cpg	320.81	J/molxK	606.11	Joback Method
cpg	329.70	J/molxK	639.44	Joback Method
cpg	337.89	J/molxK	672.77	Joback Method
cpg	345.42	J/molxK	706.11	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=C473278&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C473278&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.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>

# 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>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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