

# 2-Fluoro-3-(trifluoromethyl)benzamide

<b>Inchi:</b>	InChI=1S/C8H5F4NO/c9-6-4(7(13)14)2-1-3-5(6)8(10,11)12/h1-3H,(H2,13,14)
<b>InchiKey:</b>	UHMUBYIIPNQHGD-UHFFFAOYSA-N
<b>Formula:</b>	C8H5F4NO
<b>SMILES:</b>	NC(=O)c1cccc(C(F)(F)F)c1F
<b>Mol. weight [g/mol]:</b>	207.12
<b>CAS:</b>	207853-60-9

## Physical Properties

Property code	Value	Unit	Source
gf	-729.24	kJ/mol	Joback Method
hf	-866.84	kJ/mol	Joback Method
hfus	21.44	kJ/mol	Joback Method
hvap	49.83	kJ/mol	Joback Method
log10ws	-3.08		Crippen Method
logp	1.943		Crippen Method
mcvol	118.450	ml/mol	McGowan Method
pc	3356.75	kPa	Joback Method
tb	539.33	K	Joback Method
tc	743.04	K	Joback Method
tf	369.35	K	Joback Method
vc	0.471	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.33	J/molxK	539.33	Joback Method
cpg	288.93	J/molxK	573.28	Joback Method
cpg	297.83	J/molxK	607.23	Joback Method
cpg	306.08	J/molxK	641.18	Joback Method
cpg	313.70	J/molxK	675.14	Joback Method
cpg	320.73	J/molxK	709.09	Joback Method
cpg	327.21	J/molxK	743.04	Joback Method

# Sources

<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=C207853609&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C207853609&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>

# 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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