

# 2-Fluoro-6-(trifluoromethyl)benzoic acid

<b>Inchi:</b>	InChI=1S/C8H4F4O2/c9-5-3-1-2-4(8(10,11)12)6(5)7(13)14/h1-3H,(H,13,14)
<b>InchiKey:</b>	LNARMXLVVGHCRP-UHFFFAOYSA-N
<b>Formula:</b>	C8H4F4O2
<b>SMILES:</b>	O=C(O)c1c(F)cccc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	208.11
<b>CAS:</b>	32890-94-1

## Physical Properties

Property code	Value	Unit	Source
gf	-932.51	kJ/mol	Joback Method
hf	-1052.86	kJ/mol	Joback Method
hfus	20.33	kJ/mol	Joback Method
hvap	55.86	kJ/mol	Joback Method
log10ws	-2.97		Crippen Method
logp	2.543		Crippen Method
mcvol	114.340	ml/mol	McGowan Method
pc	3497.14	kPa	Joback Method
tb	558.98	K	Joback Method
tc	741.94	K	Joback Method
tf	346.91	K	Joback Method
vc	0.462	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.03	J/molxK	558.98	Joback Method
cpg	279.89	J/molxK	589.47	Joback Method
cpg	287.21	J/molxK	619.97	Joback Method
cpg	294.04	J/molxK	650.46	Joback Method
cpg	300.39	J/molxK	680.95	Joback Method
cpg	306.29	J/molxK	711.45	Joback Method
cpg	311.77	J/molxK	741.94	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=C32890941&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C32890941&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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