

# Benzonitrile, 2-fluoro-6-methoxy-

<b>Other names:</b>	2-fluoro-6-methoxybenzonitrile
<b>Inchi:</b>	InChI=1S/C8H6FNO/c1-11-8-4-2-3-7(9)6(8)5-10/h2-4H,1H3
<b>InchiKey:</b>	YPMSIWYNTSPMV-UHFFFAOYSA-N
<b>Formula:</b>	C8H6FNO
<b>SMILES:</b>	COc1cccc(F)c1C#N
<b>Mol. weight [g/mol]:</b>	151.14
<b>CAS:</b>	94088-46-7

## Physical Properties

Property code	Value	Unit	Source
gf	-57.00	kJ/mol	Joback Method
hf	-158.31	kJ/mol	Joback Method
hfus	15.51	kJ/mol	Joback Method
hvap	49.07	kJ/mol	Joback Method
log10ws	-2.28		Crippen Method
logp	1.706		Crippen Method
mcvol	108.840	ml/mol	McGowan Method
pc	3184.73	kPa	Joback Method
tb	542.85	K	Joback Method
tc	762.20	K	Joback Method
tf	319.19	K	Joback Method
vc	0.438	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.58	J/mol×K	542.85	Joback Method
cpg	238.65	J/mol×K	579.41	Joback Method
cpg	247.24	J/mol×K	615.97	Joback Method
cpg	255.37	J/mol×K	652.52	Joback Method
cpg	263.04	J/mol×K	689.08	Joback Method
cpg	270.23	J/mol×K	725.64	Joback Method
cpg	276.96	J/mol×K	762.20	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C94088467&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C94088467&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

# 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>hvp:</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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