

# 2-Fluoro-5-methylaniline

<b>Other names:</b>	Benzenamine, 2-fluoro-5-methyl-6-Fluoro-m-toluidine
<b>Inchi:</b>	InChI=1S/C7H8FN/c1-5-2-3-6(8)7(9)4-5/h2-4H,9H2,1H3
<b>InchiKey:</b>	QZUXMXZNVAJNSE-UHFFFAOYSA-N
<b>Formula:</b>	C7H8FN
<b>SMILES:</b>	<chem>Cc1ccc(F)c(N)c1</chem>
<b>Mol. weight [g/mol]:</b>	125.14
<b>CAS:</b>	452-84-6

## Physical Properties

Property code	Value	Unit	Source
gf	-27.15	kJ/mol	Joback Method
hf	-136.54	kJ/mol	Joback Method
hfus	15.43	kJ/mol	Joback Method
hvap	56.90 ± 0.50	kJ/mol	NIST Webbook
log10ws	-1.91		Crippen Method
logp	1.716		Crippen Method
mvol	97.480	ml/mol	McGowan Method
pc	4021.02	kPa	Joback Method
tb	468.00	K	Joback Method
tc	685.00	K	Joback Method
tf	303.96	K	Joback Method
vc	0.366	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	196.53	J/mol×K	468.00	Joback Method
cpg	206.84	J/mol×K	504.17	Joback Method
cpg	216.58	J/mol×K	540.33	Joback Method
cpg	225.78	J/mol×K	576.50	Joback Method
cpg	234.45	J/mol×K	612.66	Joback Method
cpg	242.60	J/mol×K	648.83	Joback Method
cpg	250.26	J/mol×K	685.00	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=C452846&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C452846&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</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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