

# Benzamide, 2-fluoro-N-(4-methoxyphenyl)-

<b>Other names:</b>	Benzamide, N-(4-methoxyphenyl)-2-fluoro-
<b>Inchi:</b>	InChI=1S/C14H12FNO2/c1-18-11-8-6-10(7-9-11)16-14(17)12-4-2-3-5-13(12)15/h2-9H,1H
<b>InchiKey:</b>	HPAMAHNHZDHXKY-UHFFFAOYSA-N
<b>Formula:</b>	C14H12FNO2
<b>SMILES:</b>	<chem>COc1ccc(NC(=O)c2ccccc2F)cc1</chem>
<b>Mol. weight [g/mol]:</b>	245.25
<b>CAS:</b>	212209-96-6

## Physical Properties

Property code	Value	Unit	Source
gf	-66.78	kJ/mol	Joback Method
hf	-269.61	kJ/mol	Joback Method
hfus	30.29	kJ/mol	Joback Method
hvap	67.41	kJ/mol	Joback Method
log10ws	-3.90		Crippen Method
logp	3.087		Crippen Method
mcvol	179.790	ml/mol	McGowan Method
pc	2724.01	kPa	Joback Method
rinpol	2120.00		NIST Webbook
tb	708.77	K	Joback Method
tc	939.76	K	Joback Method
tf	450.83	K	Joback Method
vc	0.680	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	472.24	J/molxK	708.77	Joback Method
cpg	485.76	J/molxK	747.27	Joback Method
cpg	498.23	J/molxK	785.77	Joback Method
cpg	509.67	J/molxK	824.26	Joback Method
cpg	520.12	J/molxK	862.76	Joback Method
cpg	529.63	J/molxK	901.26	Joback Method
cpg	538.23	J/molxK	939.76	Joback Method

# Sources

<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=C212209966&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C212209966&amp;Units=SI</a>
<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>

# 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>rinpola:</b>	Non-polar retention indices
<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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