

# 2,4-Difluorobenzamide

<b>Other names:</b>	Benzamide, 2,4-difluoro-
<b>Inchi:</b>	InChI=1S/C7H5F2NO/c8-4-1-2-5(7(10)11)6(9)3-4/h1-3H,(H2,10,11)
<b>InchiKey:</b>	KTXFXDMDYZIXSJ-UHFFFAOYSA-N
<b>Formula:</b>	C7H5F2NO
<b>SMILES:</b>	NC(=O)c1ccc(F)cc1F
<b>Mol. weight [g/mol]:</b>	157.12
<b>CAS:</b>	85118-02-1

## Physical Properties

Property code	Value	Unit	Source
gf	-350.88	kJ/mol	Joback Method
hf	-445.23	kJ/mol	Joback Method
hfus	20.11	kJ/mol	Joback Method
hvap	50.53	kJ/mol	Joback Method
log10ws	-2.31		Crippen Method
logp	1.064		Crippen Method
mcvol	100.820	ml/mol	McGowan Method
pc	4114.41	kPa	Joback Method
tb	521.14	K	Joback Method
tc	736.51	K	Joback Method
tf	354.48	K	Joback Method
vc	0.391	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	216.62	J/molxK	521.14	Joback Method
cpg	225.43	J/molxK	557.04	Joback Method
cpg	233.71	J/molxK	592.93	Joback Method
cpg	241.46	J/molxK	628.83	Joback Method
cpg	248.70	J/molxK	664.72	Joback Method
cpg	255.46	J/molxK	700.62	Joback Method
cpg	261.74	J/molxK	736.51	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C85118021&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C85118021&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>h vap:</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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