

# Benzamide, 3,4-difluoro-N-ethyl-

<b>Inchi:</b>	InChI=1S/C9H9F2NO/c1-2-12-9(13)6-3-4-7(10)8(11)5-6/h3-5H,2H2,1H3,(H,12,13)
<b>InchiKey:</b>	ZOTHBTVQULJABH-UHFFFAOYSA-N
<b>Formula:</b>	C9H9F2NO
<b>SMILES:</b>	CCNC(=O)c1ccc(F)c(F)c1
<b>Mol. weight [g/mol]:</b>	185.17

## Physical Properties

Property code	Value	Unit	Source
gf	-311.10	kJ/mol	Joback Method
hf	-466.83	kJ/mol	Joback Method
hfus	25.19	kJ/mol	Joback Method
hvap	50.78	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	1.715		Crippen Method
mcvol	129.000	ml/mol	McGowan Method
pc	3103.64	kPa	Joback Method
rinpol	1450.00		NIST Webbook
rinpol	1450.00		NIST Webbook
tb	544.54	K	Joback Method
tc	744.55	K	Joback Method
tf	346.42	K	Joback Method
vc	0.508	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	294.13	J/mol×K	544.54	Joback Method
cpg	305.28	J/mol×K	577.88	Joback Method
cpg	315.81	J/mol×K	611.21	Joback Method
cpg	325.75	J/mol×K	644.55	Joback Method
cpg	335.09	J/mol×K	677.88	Joback Method
cpg	343.88	J/mol×K	711.22	Joback Method
cpg	352.11	J/mol×K	744.55	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=U407787&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407787&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>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>rinp:</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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