

# Benzamide, pentafluoro-N-ethyl-

<b>Inchi:</b>	InChI=1S/C9H6F5NO/c1-2-15-9(16)3-4(10)6(12)8(14)7(13)5(3)11/h2H2,1H3,(H,15,16)
<b>InchiKey:</b>	JCKMCRGUKBTZRJ-UHFFFAOYSA-N
<b>Formula:</b>	C9H6F5NO
<b>SMILES:</b>	CCNC(=O)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	239.14

## Physical Properties

Property code	Value	Unit	Source
gf	-924.42	kJ/mol	Joback Method
hf	-1089.57	kJ/mol	Joback Method
hfus	33.26	kJ/mol	Joback Method
hvap	50.31	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	2.132		Crippen Method
mcvol	134.310	ml/mol	McGowan Method
pc	2563.69	kPa	Joback Method
rinpola	1340.00		NIST Webbook
rinpola	1340.00		NIST Webbook
tb	557.29	K	Joback Method
tc	734.37	K	Joback Method
tf	385.75	K	Joback Method
vc	0.562	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.05	J/mol×K	557.29	Joback Method
cpg	325.97	J/mol×K	586.80	Joback Method
cpg	334.50	J/mol×K	616.32	Joback Method
cpg	342.64	J/mol×K	645.83	Joback Method
cpg	350.38	J/mol×K	675.34	Joback Method
cpg	357.75	J/mol×K	704.86	Joback Method
cpg	364.73	J/mol×K	734.37	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U407934&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407934&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>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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