

# Benzamide, 2,5-difluoro-N-(2,5-difluorobenzoyl)-N-ethyl-

Inchi:	InChI=1S/C16H11F4NO2/c1-2-21(15(22)11-7-9(17)3-5-13(11)19)16(23)12-8-10(18)4-6-1
InchiKey:	NZRDNRMOARZGCP-UHFFFAOYSA-N
Formula:	C16H11F4NO2
SMILES:	CCN(C(=O)c1cc(F)ccc1F)C(=O)c1cc(F)ccc1F
Mol. weight [g/mol]:	325.26

## Physical Properties

Property code	Value	Unit	Source
gf	-656.16	kJ/mol	Joback Method
hf	-888.46	kJ/mol	Joback Method
hfus	42.26	kJ/mol	Joback Method
hvap	70.68	kJ/mol	Joback Method
log10ws	-5.33		Crippen Method
logp	3.546		Crippen Method
mcvol	208.980	ml/mol	McGowan Method
pc	2051.17	kPa	Joback Method
rinpol	1856.00		NIST Webbook
rinpol	1856.00		NIST Webbook
tb	756.02	K	Joback Method
tc	962.58	K	Joback Method
tf	507.69	K	Joback Method
vc	0.818	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	573.65	J/molxK	756.02	Joback Method
cpg	585.47	J/molxK	790.45	Joback Method
cpg	596.41	J/molxK	824.87	Joback Method
cpg	606.51	J/molxK	859.30	Joback Method
cpg	615.81	J/molxK	893.73	Joback Method
cpg	624.35	J/molxK	928.16	Joback Method
cpg	632.18	J/molxK	962.58	Joback Method

# Sources

<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=U407599&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407599&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.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>

# 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>r in pol:</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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