

# Benzamide, 2,5-difluoro-N-(2,5-difluorobenzoyl)-N-(hept-2-yl)-

Inchi:	InChI=1S/C21H21F4NO2/c1-3-4-5-6-13(2)26(20(27)16-11-14(22)7-9-18(16)24)21(28)17
InchiKey:	PBLWKOABHIXGAD-UHFFFAOYSA-N
Formula:	C21H21F4NO2
SMILES:	CCCCC(C)N(C(=O)c1cc(F)ccc1F)C(=O)c1cc(F)ccc1F
Mol. weight [g/mol]:	395.39

## Physical Properties

Property code	Value	Unit	Source
gf	-616.50	kJ/mol	Joback Method
hf	-996.94	kJ/mol	Joback Method
hfus	51.69	kJ/mol	Joback Method
hvap	81.42	kJ/mol	Joback Method
log10ws	-7.53		Crippen Method
logp	5.494		Crippen Method
mvol	279.430	ml/mol	McGowan Method
pc	1392.29	kPa	Joback Method
rinpol	2235.00		NIST Webbook
rinpol	2235.00		NIST Webbook
tb	869.98	K	Joback Method
tc	1075.77	K	Joback Method
tf	549.04	K	Joback Method
vc	1.091	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	852.20	J/mol×K	869.98	Joback Method
cpg	865.76	J/mol×K	904.28	Joback Method
cpg	878.30	J/mol×K	938.58	Joback Method
cpg	889.89	J/mol×K	972.87	Joback Method
cpg	900.58	J/mol×K	1007.17	Joback Method
cpg	910.43	J/mol×K	1041.47	Joback Method
cpg	919.49	J/mol×K	1075.77	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=U407605&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407605&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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