

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

Inchi:	InChI=1S/C24H27F4NO2/c1-2-3-4-5-6-7-8-9-14-29(23(30)19-15-17(25)10-12-21(19)27)2
InchiKey:	VPSMIORFKVJJLI-UHFFFAOYSA-N
Formula:	C24H27F4NO2
SMILES:	CCCCCCCCCN(C(=O)c1cc(F)ccc1F)C(=O)c1cc(F)ccc1F
Mol. weight [g/mol]:	437.47

## Physical Properties

Property code	Value	Unit	Source
gf	-588.80	kJ/mol	Joback Method
hf	-1053.58	kJ/mol	Joback Method
hfus	62.98	kJ/mol	Joback Method
hvap	88.48	kJ/mol	Joback Method
log10ws	-8.68		Crippen Method
logp	6.666		Crippen Method
mvol	321.700	ml/mol	McGowan Method
pc	1129.10	kPa	Joback Method
rinpol	2638.00		NIST Webbook
rinpol	2638.00		NIST Webbook
tb	939.06	K	Joback Method
tc	1150.63	K	Joback Method
tf	597.85	K	Joback Method
vc	1.266	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1028.38	J/molxK	939.06	Joback Method
cpg	1042.82	J/molxK	974.32	Joback Method
cpg	1056.18	J/molxK	1009.58	Joback Method
cpg	1068.52	J/molxK	1044.84	Joback Method
cpg	1079.93	J/molxK	1080.10	Joback Method
cpg	1090.46	J/molxK	1115.36	Joback Method
cpg	1100.20	J/molxK	1150.63	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=U407611&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407611&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>hvap:</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>rinpola:</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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