

# Benzamide, 2,5-difluoro-N-3-methylbutyl-

<b>Inchi:</b>	InChI=1S/C12H15F2NO/c1-8(2)5-6-15-12(16)10-7-9(13)3-4-11(10)14/h3-4,7-8H,5-6H2,1
<b>InchiKey:</b>	XMAGTLNLLZCBBF-UHFFFAOYSA-N
<b>Formula:</b>	C12H15F2NO
<b>SMILES:</b>	CC(C)CCNC(=O)c1cc(F)ccc1F
<b>Mol. weight [g/mol]:</b>	227.25

## Physical Properties

Property code	Value	Unit	Source
gf	-288.28	kJ/mol	Joback Method
hf	-534.03	kJ/mol	Joback Method
hfus	29.43	kJ/mol	Joback Method
hvap	57.07	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	2.741		Crippen Method
mvol	171.270	ml/mol	McGowan Method
pc	2322.54	kPa	Joback Method
rinpol	1607.00		NIST Webbook
rinpol	1607.00		NIST Webbook
tb	612.74	K	Joback Method
tc	808.57	K	Joback Method
tf	365.23	K	Joback Method
vc	0.670	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.76	J/molxK	612.74	Joback Method
cpg	449.48	J/molxK	645.38	Joback Method
cpg	462.45	J/molxK	678.02	Joback Method
cpg	474.66	J/molxK	710.66	Joback Method
cpg	486.16	J/molxK	743.29	Joback Method
cpg	496.97	J/molxK	775.93	Joback Method
cpg	507.10	J/molxK	808.57	Joback Method

# Sources

<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=U407585&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407585&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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