

# Benzamide, 2,4-difluoro-N-(2,4-difluorobenzoyl)-N-isobutyl-

Inchi:	InChI=1S/C18H15F4NO2/c1-10(2)9-23(17(24)13-5-3-11(19)7-15(13)21)18(25)14-6-4-12
InchiKey:	PYLDFOKVVNRJRK-UHFFFAOYSA-N
Formula:	C18H15F4NO2
SMILES:	CC(C)CN(C(=O)c1ccc(F)cc1F)C(=O)c1ccc(F)cc1F
Mol. weight [g/mol]:	353.31

## Physical Properties

Property code	Value	Unit	Source
gf	-641.76	kJ/mol	Joback Method
hf	-935.02	kJ/mol	Joback Method
hfus	43.92	kJ/mol	Joback Method
hvap	74.74	kJ/mol	Joback Method
log10ws	-5.92		Crippen Method
logp	4.182		Crippen Method
mcvol	237.160	ml/mol	McGowan Method
pc	1747.74	kPa	Joback Method
rinpol	1965.00		NIST Webbook
rinpol	1965.00		NIST Webbook
tb	801.34	K	Joback Method
tc	1007.61	K	Joback Method
tf	515.23	K	Joback Method
vc	0.923	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	682.60	J/molxK	801.34	Joback Method
cpg	695.29	J/molxK	835.72	Joback Method
cpg	707.04	J/molxK	870.10	Joback Method
cpg	717.88	J/molxK	904.48	Joback Method
cpg	727.86	J/molxK	938.86	Joback Method
cpg	737.03	J/molxK	973.23	Joback Method
cpg	745.44	J/molxK	1007.61	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U407620&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407620&amp;Units=SI</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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