

# Benzamide, 2,4-difluoro-N-(2,4-difluorobenzoyl)-N-(3-methylbut-3-en-2-yl)-

**Inchi:** InChI=1S/C19H17F4NO2/c1-11(2)7-8-24(18(25)14-5-3-12(20)9-16(14)22)19(26)15-6-4-1  
**InchiKey:** KAIIOZXIBSDDJG-UHFFFAOYSA-N  
**Formula:** C19H17F4NO2  
**SMILES:** CC(C)CCN(C(=O)c1ccc(F)cc1F)C(=O)c1ccc(F)cc1F  
**Mol. weight [g/mol]:** 367.34

## Physical Properties

Property code	Value	Unit	Source
gf	-633.34	kJ/mol	Joback Method
hf	-955.66	kJ/mol	Joback Method
hfus	46.51	kJ/mol	Joback Method
hvap	76.97	kJ/mol	Joback Method
log10ws	-6.34		Crippen Method
logp	4.572		Crippen Method
mcvol	251.250	ml/mol	McGowan Method
pc	1615.47	kPa	Joback Method
rinpol	2061.00		NIST Webbook
rinpol	2061.00		NIST Webbook
tb	824.22	K	Joback Method
tc	1029.67	K	Joback Method
tf	526.50	K	Joback Method
vc	0.980	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	738.25	J/molxK	824.22	Joback Method
cpg	751.25	J/molxK	858.46	Joback Method
cpg	763.28	J/molxK	892.70	Joback Method
cpg	774.38	J/molxK	926.94	Joback Method
cpg	784.62	J/molxK	961.18	Joback Method
cpg	794.03	J/molxK	995.42	Joback Method
cpg	802.68	J/molxK	1029.67	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=U407622&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407622&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>hvac:</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>rlnol:</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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