

# 2,6-Difluoro-3-methylbenzamide, N-(3-chloro-4-fluorophenyl)-

<b>Inchi:</b>	InChI=1S/C14H9ClF3NO/c1-7-2-4-11(17)12(13(7)18)14(20)19-8-3-5-10(16)9(15)6-8/h2-6
<b>InchiKey:</b>	PLFZIWCDIKVLHR-UHFFFAOYSA-N
<b>Formula:</b>	C14H9ClF3NO
<b>SMILES:</b>	Cc1ccc(F)c(C(=O)Nc2ccc(F)c(Cl)c2)c1F
<b>Mol. weight [g/mol]:</b>	299.68

## Physical Properties

Property code	Value	Unit	Source
gf	-392.22	kJ/mol	Joback Method
hf	-579.76	kJ/mol	Joback Method
hfus	38.29	kJ/mol	Joback Method
hvap	69.74	kJ/mol	Joback Method
log10ws	-5.60		Crippen Method
logp	4.318		Crippen Method
mcvol	189.700	ml/mol	McGowan Method
pc	2331.52	kPa	Joback Method
rinsol	2290.00		NIST Webbook
tb	737.26	K	Joback Method
tc	957.29	K	Joback Method
tf	497.26	K	Joback Method
vc	0.748	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	482.42	J/mol×K	737.26	Joback Method
cpg	493.52	J/mol×K	773.93	Joback Method
cpg	503.79	J/mol×K	810.60	Joback Method
cpg	513.26	J/mol×K	847.28	Joback Method
cpg	521.95	J/mol×K	883.95	Joback Method
cpg	529.90	J/mol×K	920.62	Joback Method
cpg	537.15	J/mol×K	957.29	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=U358104&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358104&amp;Units=SI</a>
<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>

# 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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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