

# Benzamide, 2,5-difluoro-N-dodecyl-

<b>Inchi:</b>	InChI=1S/C19H29F2NO/c1-2-3-4-5-6-7-8-9-10-11-14-22-19(23)17-15-16(20)12-13-18(17)
<b>InchiKey:</b>	XQIVFFNLXLITOP-UHFFFAOYSA-N
<b>Formula:</b>	C19H29F2NO
<b>SMILES:</b>	CCCCCCCCCCCCNC(=O)c1cc(F)ccc1F
<b>Mol. weight [g/mol]:</b>	325.44

## Physical Properties

Property code	Value	Unit	Source
gf	-226.90	kJ/mol	Joback Method
hf	-673.23	kJ/mol	Joback Method
hfus	51.09	kJ/mol	Joback Method
hvap	73.04	kJ/mol	Joback Method
log10ws	-7.08		Crippen Method
logp	5.615		Crippen Method
mvol	269.900	ml/mol	McGowan Method
pc	1317.52	kPa	Joback Method
rinpol	2379.00		NIST Webbook
rinpol	2379.00		NIST Webbook
tb	773.34	K	Joback Method
tc	959.32	K	Joback Method
tf	459.12	K	Joback Method
vc	1.069	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	814.08	J/mol×K	773.34	Joback Method
cpg	830.58	J/mol×K	804.34	Joback Method
cpg	846.17	J/mol×K	835.33	Joback Method
cpg	860.87	J/mol×K	866.33	Joback Method
cpg	874.72	J/mol×K	897.33	Joback Method
cpg	887.76	J/mol×K	928.32	Joback Method
cpg	900.02	J/mol×K	959.32	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=U407594&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407594&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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