

# Benzamide, 3,4-difluoro-N-tetradecyl-

<b>Inchi:</b>	InChI=1S/C21H33F2NO/c1-2-3-4-5-6-7-8-9-10-11-12-13-16-24-21(25)18-14-15-19(22)20
<b>InchiKey:</b>	HHLBOTVBXGFGQOR-UHFFFAOYSA-N
<b>Formula:</b>	C21H33F2NO
<b>SMILES:</b>	CCCCCCCCCCCCCNC(=O)c1ccc(F)c(F)c1
<b>Mol. weight [g/mol]:</b>	353.49

## Physical Properties

Property code	Value	Unit	Source
gf	-210.06	kJ/mol	Joback Method
hf	-714.51	kJ/mol	Joback Method
hfus	56.27	kJ/mol	Joback Method
hvap	77.49	kJ/mol	Joback Method
log10ws	-7.92		Crippen Method
logp	6.396		Crippen Method
mcvol	298.080	ml/mol	McGowan Method
pc	1151.44	kPa	Joback Method
rinpol	2656.00		NIST Webbook
rinpol	2656.00		NIST Webbook
tb	819.10	K	Joback Method
tc	1008.10	K	Joback Method
tf	481.66	K	Joback Method
vc	1.181	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	932.01	J/mol×K	819.10	Joback Method
cpg	949.24	J/mol×K	850.60	Joback Method
cpg	965.48	J/mol×K	882.10	Joback Method
cpg	980.77	J/mol×K	913.60	Joback Method
cpg	995.15	J/mol×K	945.10	Joback Method
cpg	1008.67	J/mol×K	976.60	Joback Method
cpg	1021.37	J/mol×K	1008.10	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=U407802&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407802&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>h vap:</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>r in pol:</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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