

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

<b>Inchi:</b>	InChI=1S/C25H41F2NO/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-20-28-25(29)22-18
<b>InchiKey:</b>	HAVZZCZIEAFAEA-UHFFFAOYSA-N
<b>Formula:</b>	C25H41F2NO
<b>SMILES:</b>	CCCCCCCCCCCCCCCCNC(=O)c1ccc(F)c(F)c1
<b>Mol. weight [g/mol]:</b>	409.60

## Physical Properties

Property code	Value	Unit	Source
gf	-176.38	kJ/mol	Joback Method
hf	-797.07	kJ/mol	Joback Method
hfus	66.63	kJ/mol	Joback Method
hvap	86.39	kJ/mol	Joback Method
log10ws	-9.60		Crippen Method
logp	7.956		Crippen Method
mvol	354.440	ml/mol	McGowan Method
pc	901.26	kPa	Joback Method
rinpol	3070.00		NIST Webbook
rinpol	3070.00		NIST Webbook
tb	910.62	K	Joback Method
tc	1114.99	K	Joback Method
tf	526.74	K	Joback Method
vc	1.405	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1177.26	J/molxK	910.62	Joback Method
cpg	1196.25	J/molxK	944.68	Joback Method
cpg	1214.03	J/molxK	978.74	Joback Method
cpg	1230.68	J/molxK	1012.81	Joback Method
cpg	1246.25	J/molxK	1046.87	Joback Method
cpg	1260.82	J/molxK	1080.93	Joback Method
cpg	1274.46	J/molxK	1114.99	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=U407804&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407804&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.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>

# 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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