

# Benzamide, N-decyl-N-methyl-2-fluoro-

<b>Inchi:</b>	InChI=1S/C18H28FNO/c1-3-4-5-6-7-8-9-12-15-20(2)18(21)16-13-10-11-14-17(16)19/h10
<b>InchiKey:</b>	RJNJTYUNDIRZKV-UHFFFAOYSA-N
<b>Formula:</b>	C18H28FNO
<b>SMILES:</b>	CCCCCCCCCN(C)C(=O)c1cccc1F
<b>Mol. weight [g/mol]:</b>	293.42

## Physical Properties

Property code	Value	Unit	Source
gf	-9.49	kJ/mol	Joback Method
hf	-430.95	kJ/mol	Joback Method
hfus	43.73	kJ/mol	Joback Method
hvap	66.57	kJ/mol	Joback Method
log10ws	-5.71		Crippen Method
logp	5.038		Crippen Method
mvol	254.040	ml/mol	McGowan Method
pc	1463.49	kPa	Joback Method
rinpol	2178.00		NIST Webbook
rinpol	2178.00		NIST Webbook
tb	708.48	K	Joback Method
tc	894.30	K	Joback Method
tf	414.55	K	Joback Method
vc	0.978	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	729.70	J/molxK	708.48	Joback Method
cpg	747.21	J/molxK	739.45	Joback Method
cpg	763.76	J/molxK	770.42	Joback Method
cpg	779.39	J/molxK	801.39	Joback Method
cpg	794.14	J/molxK	832.36	Joback Method
cpg	808.05	J/molxK	863.33	Joback Method
cpg	821.17	J/molxK	894.30	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=U308095&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308095&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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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