

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

<b>Inchi:</b>	InChI=1S/C17H25F2NO/c1-2-3-4-5-6-7-8-9-12-20-17(21)15-13-14(18)10-11-16(15)19/h1
<b>InchiKey:</b>	RGZYIHACEOEIJV-UHFFFAOYSA-N
<b>Formula:</b>	C17H25F2NO
<b>SMILES:</b>	CCCCCCCCCNC(=O)c1cc(F)ccc1F
<b>Mol. weight [g/mol]:</b>	297.38

## Physical Properties

Property code	Value	Unit	Source
gf	-243.74	kJ/mol	Joback Method
hf	-631.95	kJ/mol	Joback Method
hfus	45.91	kJ/mol	Joback Method
hvap	68.58	kJ/mol	Joback Method
log10ws	-6.25		Crippen Method
logp	4.835		Crippen Method
mvol	241.720	ml/mol	McGowan Method
pc	1522.31	kPa	Joback Method
rinpol	2168.00		NIST Webbook
rinpol	2168.00		NIST Webbook
tb	727.58	K	Joback Method
tc	913.02	K	Joback Method
tf	436.58	K	Joback Method
vc	0.957	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	699.96	J/mol×K	727.58	Joback Method
cpg	715.74	J/mol×K	758.49	Joback Method
cpg	730.67	J/mol×K	789.39	Joback Method
cpg	744.75	J/mol×K	820.30	Joback Method
cpg	758.04	J/mol×K	851.20	Joback Method
cpg	770.56	J/mol×K	882.11	Joback Method
cpg	782.34	J/mol×K	913.02	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=U407592&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407592&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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