

# Benzamide, 2-fluoro-3-trifluoromethyl-N-pentyl-N-pentyl-

Inchi:	InChI=1S/C18H25F4NO/c1-3-5-7-12-23(13-8-6-4-2)17(24)14-10-9-11-15(16(14)19)18(20)
InchiKey:	ACWHJPUSCDJFGN-UHFFFAOYSA-N
Formula:	C18H25F4NO
SMILES:	CCCCCN(CCCCC)C(=O)c1cccc(C(F)(F)F)c1F
Mol. weight [g/mol]:	347.39

## Physical Properties

Property code	Value	Unit	Source
gf	-600.71	kJ/mol	Joback Method
hf	-1039.50	kJ/mol	Joback Method
hfus	45.16	kJ/mol	Joback Method
hvap	63.49	kJ/mol	Joback Method
log10ws	-6.40		Crippen Method
logp	5.667		Crippen Method
mvol	259.350	ml/mol	McGowan Method
pc	1327.14	kPa	Joback Method
rinpol	2591.00		NIST Webbook
rinpol	2591.00		NIST Webbook
tb	708.04	K	Joback Method
tc	885.04	K	Joback Method
tf	431.26	K	Joback Method
vc	1.020	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	755.01	J/mol×K	708.04	Joback Method
cpg	771.12	J/mol×K	737.54	Joback Method
cpg	786.32	J/mol×K	767.04	Joback Method
cpg	800.67	J/mol×K	796.54	Joback Method
cpg	814.22	J/mol×K	826.04	Joback Method
cpg	827.00	J/mol×K	855.54	Joback Method
cpg	839.07	J/mol×K	885.04	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=U415530&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415530&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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