

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

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

## Physical Properties

Property code	Value	Unit	Source
gf	-603.15	kJ/mol	Joback Method
hf	-1044.78	kJ/mol	Joback Method
hfus	41.64	kJ/mol	Joback Method
hvap	63.10	kJ/mol	Joback Method
log10ws	-6.16		Crippen Method
logp	5.523		Crippen Method
mvol	259.350	ml/mol	McGowan Method
pc	1334.91	kPa	Joback Method
rinpol	2309.00		NIST Webbook
rinpol	2309.00		NIST Webbook
tb	707.60	K	Joback Method
tc	886.64	K	Joback Method
tf	416.26	K	Joback Method
vc	1.014	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	755.49	J/molxK	707.60	Joback Method
cpg	771.81	J/molxK	737.44	Joback Method
cpg	787.19	J/molxK	767.28	Joback Method
cpg	801.70	J/molxK	797.12	Joback Method
cpg	815.37	J/molxK	826.96	Joback Method
cpg	828.26	J/molxK	856.80	Joback Method
cpg	840.41	J/molxK	886.64	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=U415529&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415529&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>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>rlnpol:</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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