

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

Inchi:	InChI=1S/C23H35F4NO/c1-3-5-7-8-9-10-11-13-18-28(17-12-6-4-2)22(29)19-15-14-16-20
InchiKey:	PNUKYXIDTGVUJO-UHFFFAOYSA-N
Formula:	C23H35F4NO
SMILES:	CCCCCCCCCN(CCCCC)C(=O)c1cccc(C(F)(F)F)c1F
Mol. weight [g/mol]:	417.52

## Physical Properties

Property code	Value	Unit	Source
gf	-558.61	kJ/mol	Joback Method
hf	-1142.70	kJ/mol	Joback Method
hfus	58.12	kJ/mol	Joback Method
hvap	74.62	kJ/mol	Joback Method
log10ws	-8.49		Crippen Method
logp	7.618		Crippen Method
mvol	329.800	ml/mol	McGowan Method
pc	961.48	kPa	Joback Method
rinpol	2987.00		NIST Webbook
rinpol	2987.00		NIST Webbook
tb	822.44	K	Joback Method
tc	1008.42	K	Joback Method
tf	487.61	K	Joback Method
vc	1.300	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1047.84	J/molxK	822.44	Joback Method
cpg	1065.82	J/molxK	853.44	Joback Method
cpg	1082.79	J/molxK	884.43	Joback Method
cpg	1098.79	J/molxK	915.43	Joback Method
cpg	1113.91	J/molxK	946.43	Joback Method
cpg	1128.19	J/molxK	977.42	Joback Method
cpg	1141.71	J/molxK	1008.42	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.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>
<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=U416698&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416698&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>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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