

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

Inchi: InChI=1S/C19H27F4NO/c1-3-5-7-9-14-24(13-8-6-4-2)18(25)15-11-10-12-16(17(15)20)19

InchiKey: GWUGYDOCVWTPJX-UHFFFAOYSA-N

Formula: C19H27F4NO

SMILES: CCCCCCN(CCCCC)C(=O)c1cccc(C(F)(F)F)c1F

Mol. weight [g/mol]: 361.42

## Physical Properties

Property code	Value	Unit	Source
gf	-592.29	kJ/mol	Joback Method
hf	-1060.14	kJ/mol	Joback Method
hfus	47.75	kJ/mol	Joback Method
hvap	65.71	kJ/mol	Joback Method
log10ws	-6.82		Crippen Method
logp	6.057		Crippen Method
mvol	273.440	ml/mol	McGowan Method
pc	1238.96	kPa	Joback Method
rinpol	2423.00		NIST Webbook
rinpol	2423.00		NIST Webbook
tb	730.92	K	Joback Method
tc	908.48	K	Joback Method
tf	442.53	K	Joback Method
vc	1.077	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	811.69	J/mol×K	730.92	Joback Method
cpg	828.14	J/mol×K	760.51	Joback Method
cpg	843.67	J/mol×K	790.11	Joback Method
cpg	858.34	J/mol×K	819.70	Joback Method
cpg	872.18	J/mol×K	849.29	Joback Method
cpg	885.25	J/mol×K	878.89	Joback Method
cpg	897.60	J/mol×K	908.48	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=U416693&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416693&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>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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