

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

Inchi:	InChI=1S/C27H43F4NO/c1-3-5-7-8-9-10-11-12-13-14-15-17-22-32(21-16-6-4-2)26(33)23
InchiKey:	COZRBCAXJSAUFH-UHFFFAOYSA-N
Formula:	C27H43F4NO
SMILES:	CCCCCCCCCCCCCN(CCCCC)C(=O)c1cccc(C(F)(F)F)c1F
Mol. weight [g/mol]:	473.63

## Physical Properties

Property code	Value	Unit	Source
gf	-524.93	kJ/mol	Joback Method
hf	-1225.26	kJ/mol	Joback Method
hfus	68.48	kJ/mol	Joback Method
hvap	83.52	kJ/mol	Joback Method
log10ws	-10.17		Crippen Method
logp	9.178		Crippen Method
mvol	386.160	ml/mol	McGowan Method
pc	767.76	kPa	Joback Method
tb	913.96	K	Joback Method
tc	1121.19	K	Joback Method
tf	532.69	K	Joback Method
vc	1.524	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1296.30	J/molxK	913.96	Joback Method
cpg	1316.54	J/molxK	948.50	Joback Method
cpg	1335.55	J/molxK	983.04	Joback Method
cpg	1353.45	J/molxK	1017.58	Joback Method
cpg	1370.33	J/molxK	1052.12	Joback Method
cpg	1386.30	J/molxK	1086.66	Joback Method
cpg	1401.45	J/molxK	1121.19	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U416701&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416701&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>
<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>

# 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>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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