

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

Inchi:	InChI=1S/C22H33F4NO/c1-2-3-4-5-6-7-8-9-10-11-12-13-17-27-21(28)18-15-14-16-19(20)
InchiKey:	CZMQCOFCCBFNNQ-UHFFFAOYSA-N
Formula:	C22H33F4NO
SMILES:	CCCCCCCCCCCCCNC(=O)c1cccc(C(F)(F)F)c1F
Mol. weight [g/mol]:	403.50

## Physical Properties

Property code	Value	Unit	Source
gf	-588.42	kJ/mol	Joback Method
hf	-1136.12	kJ/mol	Joback Method
hfus	57.60	kJ/mol	Joback Method
hvap	76.78	kJ/mol	Joback Method
log10ws	-8.69		Crippen Method
logp	7.275		Crippen Method
mcvol	315.710	ml/mol	McGowan Method
pc	1031.25	kPa	Joback Method
rinpol	2537.00		NIST Webbook
rinpol	2537.00		NIST Webbook
tb	837.29	K	Joback Method
tc	1026.76	K	Joback Method
tf	496.53	K	Joback Method
vc	1.262	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1007.71	J/mol×K	837.29	Joback Method
cpg	1024.71	J/mol×K	868.87	Joback Method
cpg	1040.72	J/mol×K	900.45	Joback Method
cpg	1055.80	J/mol×K	932.03	Joback Method
cpg	1070.01	J/mol×K	963.60	Joback Method
cpg	1083.41	J/mol×K	995.18	Joback Method
cpg	1096.05	J/mol×K	1026.76	Joback Method

# Sources

<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=U407713&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407713&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>

# 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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