

# Benzamide, 2-fluoro-N-ethyl-N-tetradecyl-

<b>Inchi:</b>	InChI=1S/C23H38FNO/c1-3-5-6-7-8-9-10-11-12-13-14-17-20-25(4-2)23(26)21-18-15-16-
<b>InchiKey:</b>	XKBDVQMCMGEWHT-UHFFFAOYSA-N
<b>Formula:</b>	C23H38FNO
<b>SMILES:</b>	CCCCCCCCCCCCCN(CC)C(=O)c1ccccc1F
<b>Mol. weight [g/mol]:</b>	363.55

## Physical Properties

Property code	Value	Unit	Source
gf	32.61	kJ/mol	Joback Method
hf	-534.15	kJ/mol	Joback Method
hfus	56.68	kJ/mol	Joback Method
hvap	77.70	kJ/mol	Joback Method
log10ws	-7.81		Crippen Method
logp	6.989		Crippen Method
mvol	324.490	ml/mol	McGowan Method
pc	1044.62	kPa	Joback Method
rmpol	3088.00		NIST Webbook
rmpol	3088.00		NIST Webbook
tb	822.88	K	Joback Method
tc	1012.25	K	Joback Method
tf	470.90	K	Joback Method
vc	1.258	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1025.02	J/molxK	822.88	Joback Method
cpg	1044.00	J/molxK	854.44	Joback Method
cpg	1061.90	J/molxK	886.00	Joback Method
cpg	1078.78	J/molxK	917.56	Joback Method
cpg	1094.70	J/molxK	949.12	Joback Method
cpg	1109.71	J/molxK	980.68	Joback Method
cpg	1123.87	J/molxK	1012.25	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415385&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415385&amp;Units=SI</a>
<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.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>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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