

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

<b>Inchi:</b>	InChI=1S/C25H42FNO/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-19-22-27(4-2)25(28)23-20-
<b>InchiKey:</b>	UATWMEIOLLOOFQL-UHFFFAOYSA-N
<b>Formula:</b>	C25H42FNO
<b>SMILES:</b>	CCCCCCCCCCCCCCCCN(CC)C(=O)c1ccccc1F
<b>Mol. weight [g/mol]:</b>	391.61

## Physical Properties

Property code	Value	Unit	Source
gf	49.45	kJ/mol	Joback Method
hf	-575.43	kJ/mol	Joback Method
hfus	61.86	kJ/mol	Joback Method
hvap	82.15	kJ/mol	Joback Method
log10ws	-8.64		Crippen Method
logp	7.769		Crippen Method
mvol	352.670	ml/mol	McGowan Method
pc	926.11	kPa	Joback Method
rinpol	1758.00		NIST Webbook
rinpol	1758.00		NIST Webbook
tb	868.64	K	Joback Method
tc	1064.24	K	Joback Method
tf	493.44	K	Joback Method
vc	1.369	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1148.91	J/molxK	868.64	Joback Method
cpg	1168.64	J/molxK	901.24	Joback Method
cpg	1187.22	J/molxK	933.84	Joback Method
cpg	1204.72	J/molxK	966.44	Joback Method
cpg	1221.19	J/molxK	999.04	Joback Method
cpg	1236.70	J/molxK	1031.64	Joback Method
cpg	1251.33	J/molxK	1064.24	Joback Method

# Sources

<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=U415386&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415386&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>rinpola:</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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