

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

Inchi:	InChI=1S/C16H21F4NO/c1-3-5-6-11-21(10-4-2)15(22)12-8-7-9-13(14(12)17)16(18,19)20
InchiKey:	SOQLAEMPULHZPZ-UHFFFAOYSA-N
Formula:	C16H21F4NO
SMILES:	CCCCCN(CCC)C(=O)c1cccc(C(F)(F)F)c1F
Mol. weight [g/mol]:	319.34

## Physical Properties

Property code	Value	Unit	Source
gf	-617.55	kJ/mol	Joback Method
hf	-998.22	kJ/mol	Joback Method
hfus	39.98	kJ/mol	Joback Method
hvap	59.03	kJ/mol	Joback Method
log10ws	-5.56		Crippen Method
logp	4.887		Crippen Method
mcvol	231.170	ml/mol	McGowan Method
pc	1534.26	kPa	Joback Method
rinpola	1997.00		NIST Webbook
rinpola	1997.00		NIST Webbook
tb	662.28	K	Joback Method
tc	839.62	K	Joback Method
tf	408.72	K	Joback Method
vc	0.908	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	644.93	J/molxK	662.28	Joback Method
cpg	660.33	J/molxK	691.84	Joback Method
cpg	674.86	J/molxK	721.39	Joback Method
cpg	688.55	J/molxK	750.95	Joback Method
cpg	701.46	J/molxK	780.51	Joback Method
cpg	713.63	J/molxK	810.07	Joback Method
cpg	725.10	J/molxK	839.62	Joback Method

# Sources

<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=U415526&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415526&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.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>

# 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>rlnol:</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

Latest version available from:

<https://www.cheméo.com/cid/114-557-7/Benzamide-2-fluoro-3-trifluoromethyl-N-pentyl-N-propyl.pdf>

Generated by Cheméo on 2024-05-01 22:00:14.40404202 +0000 UTC m=+16890063.324619333.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.