

# Benzamide, N-(4-fluorophenyl)-3-trifluoromethyl-

Inchi: InChI=1S/C14H9F4NO/c15-11-4-6-12(7-5-11)19-13(20)9-2-1-3-10(8-9)14(16,17)18/h1-8

InchiKey: SDBBNTCNOXEWLV-UHFFFAOYSA-N

Formula: C14H9F4NO

SMILES: O=C(Nc1ccc(F)cc1)c1cccc(C(F)(F)F)c1

Mol. weight [g/mol]: 283.22

## Physical Properties

Property code	Value	Unit	Source
gf	-543.37	kJ/mol	Joback Method
hf	-734.47	kJ/mol	Joback Method
hfus	30.92	kJ/mol	Joback Method
hvap	61.25	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	4.097		Crippen Method
mvol	179.230	ml/mol	McGowan Method
pc	2462.92	kPa	Joback Method
rinpol	1873.00		NIST Webbook
rinpol	1873.00		NIST Webbook
tb	680.93	K	Joback Method
tc	897.52	K	Joback Method
tf	432.79	K	Joback Method
vc	0.706	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	474.24	J/molxK	680.93	Joback Method
cpg	486.63	J/molxK	717.03	Joback Method
cpg	498.00	J/molxK	753.13	Joback Method
cpg	508.43	J/molxK	789.23	Joback Method
cpg	517.98	J/molxK	825.33	Joback Method
cpg	526.73	J/molxK	861.42	Joback Method
cpg	534.75	J/molxK	897.52	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U306934&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U306934&amp;Units=SI</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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