

# Benzamide, 3-fluoro-4-trifluoromethyl-N-(3-fluoro-4-trifluoromethylphenyl)

**Inchi:** InChI=1S/C24H23F8NO2/c1-2-3-4-5-6-7-12-33(21(34)15-8-10-17(19(25)13-15)23(27,28)11-14)/N  
**InchiKey:** JHVVMRKQFSMHOZ-UHFFFAOYSA-N  
**Formula:** C24H23F8NO2  
**SMILES:** CCCCCCN(C(=O)c1ccc(C(F)(F)F)c(F)c1)C(=O)c1ccc(C(F)(F)F)c(F)c1  
**Mol. weight [g/mol]:** 509.43

## Physical Properties

Property code	Value	Unit	Source
gf	-1362.36	kJ/mol	Joback Method
hf	-1855.52	kJ/mol	Joback Method
hfus	60.47	kJ/mol	Joback Method
hvap	82.62	kJ/mol	Joback Method
log10ws	-9.38		Crippen Method
logp	7.646		Crippen Method
mvol	328.780	ml/mol	McGowan Method
pc	1028.60	kPa	Joback Method
rinpol	2255.00		NIST Webbook
rinpol	2255.00		NIST Webbook
tb	929.68	K	Joback Method
tc	1138.24	K	Joback Method
tf	605.05	K	Joback Method
vc	1.315	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1057.43	J/molxK	929.68	Joback Method
cpg	1070.96	J/molxK	964.44	Joback Method
cpg	1083.59	J/molxK	999.20	Joback Method
cpg	1095.43	J/molxK	1033.96	Joback Method
cpg	1106.59	J/molxK	1068.72	Joback Method
cpg	1117.19	J/molxK	1103.48	Joback Method
cpg	1127.33	J/molxK	1138.24	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=U407911&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407911&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>
<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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