

# Benzamide, 3-trifluoromethyl-2-fluoro-N-(3-trifluoromethyl-2-fl

Inchi:	InChI=1S/C25H25F8NO2/c1-2-3-4-5-6-7-8-15-34(22(35)16-11-9-13-18(20(16)26)24(28,2
InchiKey:	OVDXHMWSDSSIMD-UHFFFAOYSA-N
Formula:	C25H25F8NO2
SMILES:	CCCCCCCCN(C(=O)c1cccc(C(F)(F)F)c1F)C(=O)c1cccc(C(F)(F)F)c1F
Mol. weight [g/mol]:	523.46

## Physical Properties

Property code	Value	Unit	Source
gf	-1353.94	kJ/mol	Joback Method
hf	-1876.16	kJ/mol	Joback Method
hfus	63.06	kJ/mol	Joback Method
hvap	84.85	kJ/mol	Joback Method
log10ws	-9.80		Crippen Method
logp	8.036		Crippen Method
mvol	342.870	ml/mol	McGowan Method
pc	968.07	kPa	Joback Method
rinpol	2431.00		NIST Webbook
rinpol	2431.00		NIST Webbook
tb	952.56	K	Joback Method
tc	1166.44	K	Joback Method
tf	616.32	K	Joback Method
vc	1.371	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1116.95	J/molxK	952.56	Joback Method
cpg	1131.01	J/molxK	988.21	Joback Method
cpg	1144.16	J/molxK	1023.85	Joback Method
cpg	1156.52	J/molxK	1059.50	Joback Method
cpg	1168.21	J/molxK	1095.15	Joback Method
cpg	1179.35	J/molxK	1130.79	Joback Method
cpg	1190.06	J/molxK	1166.44	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.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>
<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=U407726&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407726&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>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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