

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

<b>Inchi:</b>	InChI=1S/C20H15F8NO2/c1-2-3-10-29(17(30)11-6-4-8-13(15(11)21)19(23,24)25)18(31)
<b>InchiKey:</b>	HHQPLRFAYZHQBL-UHFFFAOYSA-N
<b>Formula:</b>	C20H15F8NO2
<b>SMILES:</b>	CCCCN(C(=O)c1cccc(C(F)(F)F)c1F)C(=O)c1cccc(C(F)(F)F)c1F
<b>Mol. weight [g/mol]:</b>	453.33

## Physical Properties

Property code	Value	Unit	Source
gf	-1396.04	kJ/mol	Joback Method
hf	-1772.96	kJ/mol	Joback Method
hfus	50.11	kJ/mol	Joback Method
hvap	73.72	kJ/mol	Joback Method
log10ws	-7.71		Crippen Method
logp	6.085		Crippen Method
mcvol	272.420	ml/mol	McGowan Method
pc	1337.84	kPa	Joback Method
rinpol	1948.00		NIST Webbook
rinpol	1948.00		NIST Webbook
tb	838.16	K	Joback Method
tc	1034.58	K	Joback Method
tf	559.97	K	Joback Method
vc	1.091	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	826.69	J/mol×K	838.16	Joback Method
cpg	838.50	J/mol×K	870.90	Joback Method
cpg	849.45	J/mol×K	903.63	Joback Method
cpg	859.63	J/mol×K	936.37	Joback Method
cpg	869.12	J/mol×K	969.10	Joback Method
cpg	877.99	J/mol×K	1001.84	Joback Method
cpg	886.33	J/mol×K	1034.58	Joback Method

# Sources

<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=U407720&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407720&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>

# 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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