

# Benzenamine, 2-(trifluoromethoxy)-

<b>Other names:</b>	2-(trifluoromethoxy)aniline
<b>Inchi:</b>	InChI=1S/C7H6F3NO/c8-7(9,10)12-6-4-2-1-3-5(6)11/h1-4H,11H2
<b>InchiKey:</b>	ZFCOUBUSGHLCDT-UHFFFAOYSA-N
<b>Formula:</b>	C7H6F3NO
<b>SMILES:</b>	Nc1ccccc1OC(F)(F)F
<b>Mol. weight [g/mol]:</b>	177.12
<b>CAS:</b>	1535-75-7

## Physical Properties

Property code	Value	Unit	Source
gf	-509.30	kJ/mol	Joback Method
hf	-658.26	kJ/mol	Joback Method
hfus	15.75	kJ/mol	Joback Method
hvap	43.42	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.167		Crippen Method
mcvol	106.890	ml/mol	McGowan Method
pc	3673.09	kPa	Joback Method
tb	480.75	K	Joback Method
tc	685.60	K	Joback Method
tf	317.27	K	Joback Method
vc	0.409	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	237.96	J/mol×K	480.75	Joback Method
cpg	248.38	J/mol×K	514.89	Joback Method
cpg	258.12	J/mol×K	549.03	Joback Method
cpg	267.21	J/mol×K	583.18	Joback Method
cpg	275.66	J/mol×K	617.32	Joback Method
cpg	283.52	J/mol×K	651.46	Joback Method
cpg	290.81	J/mol×K	685.60	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=C1535757&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1535757&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.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>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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