

# N-benzyl-1,1,1-trifluoromethanesulphonamide

<b>Inchi:</b>	InChI=1S/C8H8F3NO2S/c9-8(10,11)15(13,14)12-6-7-4-2-1-3-5-7/h1-5,12H,6H2
<b>InchiKey:</b>	IJHVVEQTOXFGCL-UHFFFAOYSA-N
<b>Formula:</b>	C8H8F3NO2S
<b>SMILES:</b>	O=S(=O)(NCc1ccccc1)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	239.22
<b>CAS:</b>	36457-58-6

## Physical Properties

Property code	Value	Unit	Source
gf	-831.85	kJ/mol	Joback Method
hf	-968.88	kJ/mol	Joback Method
hfus	28.82	kJ/mol	Joback Method
hvap	57.00	kJ/mol	Joback Method
log10ws	-2.94		Crippen Method
logp	1.626		Crippen Method
mcvol	143.200	ml/mol	McGowan Method
pc	3891.64	kPa	Joback Method
tb	501.65	K	Joback Method
tc	689.25	K	Joback Method
tf	301.75	K	Joback Method
vc	0.580	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.71	J/molxK	501.65	Joback Method
cpg	335.34	J/molxK	532.92	Joback Method
cpg	347.15	J/molxK	564.18	Joback Method
cpg	358.18	J/molxK	595.45	Joback Method
cpg	368.46	J/molxK	626.71	Joback Method
cpg	378.01	J/molxK	657.98	Joback Method
cpg	386.85	J/molxK	689.25	Joback Method

# Sources

<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>
<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=C36457586&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C36457586&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>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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