

# Trifluoroacetamide, N-[1-(3-methoxyphenyl)ethyl]

Inchi:	InChI=1S/C9H8F3NO2/c1-15-7-4-2-3-6(5-7)13-8(14)9(10,11)12/h2-5H,1H3,(H,13,14)
InchiKey:	TZCQPHOSHKXEQV-UHFFFAOYSA-N
Formula:	C9H8F3NO2
SMILES:	COc1cccc(NC(=O)C(F)(F)F)c1
Mol. weight [g/mol]:	219.16

## Physical Properties

Property code	Value	Unit	Source
gf	-598.44	kJ/mol	Joback Method
hf	-792.44	kJ/mol	Joback Method
hfus	22.43	kJ/mol	Joback Method
hvap	50.41	kJ/mol	Joback Method
log10ws	-2.46		Crippen Method
logp	2.196		Crippen Method
mcvol	136.640	ml/mol	McGowan Method
pc	3009.03	kPa	Joback Method
rinpol	1431.00		NIST Webbook
rinpol	1431.00		NIST Webbook
tb	558.02	K	Joback Method
tc	757.27	K	Joback Method
tf	359.14	K	Joback Method
vc	0.533	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	329.61	J/mol×K	558.02	Joback Method
cpg	340.98	J/mol×K	591.23	Joback Method
cpg	351.60	J/mol×K	624.44	Joback Method
cpg	361.52	J/mol×K	657.64	Joback Method
cpg	370.75	J/mol×K	690.85	Joback Method
cpg	379.33	J/mol×K	724.06	Joback Method
cpg	387.29	J/mol×K	757.27	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R74056&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R74056&amp;Units=SI</a>
<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.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>

# 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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