

# N-(5-Chloro-2-methylphenyl)-2,2,2-trifluoroacetamide

<b>Inchi:</b>	InChI=1S/C9H7ClF3NO/c1-5-2-3-6(10)4-7(5)14-8(15)9(11,12)13/h2-4H,1H3,(H,14,15)
<b>InchiKey:</b>	IASIUFGKIUHRAG-UHFFFAOYSA-N
<b>Formula:</b>	C9H7ClF3NO
<b>SMILES:</b>	<chem>Cc1ccc(Cl)cc1NC(=O)C(F)(F)F</chem>
<b>Mol. weight [g/mol]:</b>	237.61

## Physical Properties

Property code	Value	Unit	Source
gf	-515.00	kJ/mol	Joback Method
hf	-687.43	kJ/mol	Joback Method
hfus	25.05	kJ/mol	Joback Method
hvap	53.05	kJ/mol	Joback Method
log10ws	-3.50		Crippen Method
logp	3.149		Crippen Method
mcvol	143.010	ml/mol	McGowan Method
pc	2896.73	kPa	Joback Method
rinpola	1354.00		NIST Webbook
rinpola	1354.00		NIST Webbook
tb	578.01	K	Joback Method
tc	784.51	K	Joback Method
tf	379.35	K	Joback Method
vc	0.565	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.31	J/molxK	578.01	Joback Method
cpg	340.76	J/molxK	612.43	Joback Method
cpg	350.45	J/molxK	646.84	Joback Method
cpg	359.43	J/molxK	681.26	Joback Method
cpg	367.73	J/molxK	715.68	Joback Method
cpg	375.39	J/molxK	750.10	Joback Method
cpg	382.46	J/molxK	784.51	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373376&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373376&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

Latest version available from:

<https://www.chemeo.com/cid/31-218-5/N-5-Chloro-2-methylphenyl-2-2-2-trifluoroacetamide.pdf>

Generated by Cheméo on 2024-04-23 12:02:44.592657753 +0000 UTC m=+16163013.513235069.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.