

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

<b>Other names:</b>	5-Chloro-2-methyl-aniline, N,N-bis-trifluoroacetyl-
<b>Inchi:</b>	InChI=1S/C11H6ClF6NO2/c1-5-2-3-6(12)4-7(5)19(8(20)10(13,14)15)9(21)11(16,17)18/h
<b>InchiKey:</b>	QKMNNYAERWCXHO-UHFFFAOYSA-N
<b>Formula:</b>	C11H6ClF6NO2
<b>SMILES:</b>	<chem>Cc1ccc(Cl)cc1N(C(=O)C(F)(F)F)C(=O)C(F)(F)F</chem>
<b>Mol. weight [g/mol]:</b>	333.61

## Physical Properties

Property code	Value	Unit	Source
gf	-1187.28	kJ/mol	Joback Method
hf	-1424.31	kJ/mol	Joback Method
hfus	31.58	kJ/mol	Joback Method
hvap	56.11	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	3.633		Crippen Method
mcvol	178.070	ml/mol	McGowan Method
pc	2229.20	kPa	Joback Method
rinpol	1179.00		NIST Webbook
rinpol	1179.00		NIST Webbook
tb	634.49	K	Joback Method
tc	824.55	K	Joback Method
tf	435.82	K	Joback Method
vc	0.709	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	454.54	J/mol×K	634.49	Joback Method
cpg	464.60	J/mol×K	666.17	Joback Method
cpg	473.83	J/mol×K	697.84	Joback Method
cpg	482.31	J/mol×K	729.52	Joback Method
cpg	490.08	J/mol×K	761.20	Joback Method
cpg	497.20	J/mol×K	792.87	Joback Method
cpg	503.74	J/mol×K	824.55	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=U373427&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373427&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>

# 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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