

# Trichloroacetamide, N-(2-fluorophenyl)-

<b>Inchi:</b>	InChI=1S/C8H5Cl3FNO/c9-8(10,11)7(14)13-6-4-2-1-3-5(6)12/h1-4H,(H,13,14)
<b>InchiKey:</b>	CICMDDPELVRHCE-UHFFFAOYSA-N
<b>Formula:</b>	C8H5Cl3FNO
<b>SMILES:</b>	O=C(Nc1ccccc1F)C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	256.49

## Physical Properties

Property code	Value	Unit	Source
gf	-148.03	kJ/mol	Joback Method
hf	-294.58	kJ/mol	Joback Method
hfus	25.08	kJ/mol	Joback Method
hvap	60.56	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	3.134		Crippen Method
mvol	149.860	ml/mol	McGowan Method
pc	3337.38	kPa	Joback Method
rinpol	1532.00		NIST Webbook
rinpol	1532.00		NIST Webbook
tb	626.47	K	Joback Method
tc	865.04	K	Joback Method
tf	414.22	K	Joback Method
vc	0.571	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.27	J/mol×K	626.47	Joback Method
cpg	322.17	J/mol×K	666.23	Joback Method
cpg	330.21	J/mol×K	705.99	Joback Method
cpg	337.45	J/mol×K	745.76	Joback Method
cpg	343.98	J/mol×K	785.52	Joback Method
cpg	349.85	J/mol×K	825.28	Joback Method
cpg	355.14	J/mol×K	865.04	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308484&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308484&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>hvpap:</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>rinppl:</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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