

# 2-Chloro-4-fluoro-phenyl trifluoroacetate

<b>Inchi:</b>	InChI=1S/C8H3ClF4O2/c9-5-3-4(10)1-2-6(5)15-7(14)8(11,12)13/h1-3H
<b>InchiKey:</b>	DWZXRGYAJCHOGN-UHFFFAOYSA-N
<b>Formula:</b>	C8H3ClF4O2
<b>SMILES:</b>	O=C(Oc1ccc(F)cc1Cl)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	242.56

## Physical Properties

Property code	Value	Unit	Source
gf	-912.62	kJ/mol	Joback Method
hf	-1048.59	kJ/mol	Joback Method
hfus	21.63	kJ/mol	Joback Method
hvap	45.98	kJ/mol	Joback Method
log10ws	-3.46		Crippen Method
logp	2.947		Crippen Method
mcvol	126.580	ml/mol	McGowan Method
pc	2963.34	kPa	Joback Method
rinpol	974.00		NIST Webbook
rinpol	974.00		NIST Webbook
tb	526.65	K	Joback Method
tc	723.77	K	Joback Method
tf	338.24	K	Joback Method
vc	0.509	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	274.03	J/mol×K	526.65	Joback Method
cpg	282.83	J/mol×K	559.50	Joback Method
cpg	291.05	J/mol×K	592.36	Joback Method
cpg	298.71	J/mol×K	625.21	Joback Method
cpg	305.83	J/mol×K	658.07	Joback Method
cpg	312.43	J/mol×K	690.92	Joback Method
cpg	318.53	J/mol×K	723.77	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373302&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373302&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>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>rlnol:</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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