

# 3,4-Dichlorophenol, trifluoroacetate

<b>Other names:</b>	Trifluoroacetic acid, 3,4-dichlorophenyl ester
<b>Inchi:</b>	InChI=1S/C8H3Cl2F3O2/c9-5-2-1-4(3-6(5)10)15-7(14)8(11,12)13/h1-3H
<b>InchiKey:</b>	ILDUZPKFXXMMCB-UHFFFAOYSA-N
<b>Formula:</b>	C8H3Cl2F3O2
<b>SMILES:</b>	O=C(Oc1ccc(Cl)c(Cl)c1)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	259.01
<b>CAS:</b>	959227-64-6

## Physical Properties

Property code	Value	Unit	Source
gf	-729.74	kJ/mol	Joback Method
hf	-868.22	kJ/mol	Joback Method
hfus	22.75	kJ/mol	Joback Method
hvap	51.18	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.461		Crippen Method
mcvol	137.050	ml/mol	McGowan Method
pc	2989.32	kPa	Joback Method
rinpol	992.00		NIST Webbook
tb	564.81	K	Joback Method
tc	776.60	K	Joback Method
tf	367.57	K	Joback Method
vc	0.540	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.51	J/molxK	564.81	Joback Method
cpg	296.00	J/molxK	600.11	Joback Method
cpg	303.86	J/molxK	635.41	Joback Method
cpg	311.11	J/molxK	670.70	Joback Method
cpg	317.77	J/molxK	706.00	Joback Method
cpg	323.87	J/molxK	741.30	Joback Method
cpg	329.45	J/molxK	776.60	Joback Method

# Sources

<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=C959227646&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C959227646&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>
<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>

# 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>h vap:</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>r in pol:</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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