

# Ethanone, 1-(2,3,4-trichlorophenyl)-

<b>Other names:</b>	Acetophenone, 2',3',4'-trichloro- 2,3,4-Trichloroacetophenone 2',3',4'-Trichloroacetophenone
<b>Inchi:</b>	InChI=1S/C8H5Cl3O/c1-4(12)5-2-3-6(9)8(11)7(5)10/h2-3H,1H3
<b>InchiKey:</b>	BXJZZJYNVIDEKG-UHFFFAOYSA-N
<b>Formula:</b>	C8H5Cl3O
<b>SMILES:</b>	CC(=O)c1ccc(Cl)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	223.48
<b>CAS:</b>	13608-87-2

## Physical Properties

Property code	Value	Unit	Source
gf	-64.71	kJ/mol	Joback Method
hf	-166.13	kJ/mol	Joback Method
hfus	23.54	kJ/mol	Joback Method
hvap	57.56	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	3.849		Crippen Method
mcvol	138.110	ml/mol	McGowan Method
pc	3272.78	kPa	Joback Method
tb	590.22	K	Joback Method
tc	830.14	K	Joback Method
tf	383.59	K	Joback Method
vc	0.528	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.97	J/mol×K	590.22	Joback Method
cpg	293.51	J/mol×K	790.16	Joback Method
cpg	287.30	J/mol×K	750.17	Joback Method
cpg	280.56	J/mol×K	710.18	Joback Method
cpg	273.28	J/mol×K	670.19	Joback Method
cpg	265.42	J/mol×K	630.21	Joback Method

cpg	299.21	J/molxK	830.14	Joback Method
dvisc	0.0002821	Paxs	590.22	Joback Method
dvisc	0.0003373	Paxs	555.78	Joback Method
dvisc	0.0004130	Paxs	521.34	Joback Method
dvisc	0.0005204	Paxs	486.91	Joback Method
dvisc	0.0006791	Paxs	452.47	Joback Method
dvisc	0.0009261	Paxs	418.03	Joback Method
dvisc	0.0013352	Paxs	383.59	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C13608872&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13608872&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>hvap:</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>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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