

# 2,6-Dichloroacetophenone

<b>Other names:</b>	Ethanone, 1-(2,6-dichlorophenyl)- 1-(2,6-dichlorophenyl)ethan-1-one
<b>Inchi:</b>	InChI=1S/C8H6Cl2O/c1-5(11)8-6(9)3-2-4-7(8)10/h2-4H,1H3
<b>InchiKey:</b>	HYBDSXBLGCQKRE-UHFFFAOYSA-N
<b>Formula:</b>	C8H6Cl2O
<b>SMILES:</b>	CC(=O)c1c(Cl)cccc1Cl
<b>Mol. weight [g/mol]:</b>	189.04
<b>CAS:</b>	2040-05-3

## Physical Properties

Property code	Value	Unit	Source
gf	-43.15	kJ/mol	Joback Method
hf	-138.92	kJ/mol	Joback Method
hfus	19.73	kJ/mol	Joback Method
hvap	52.52	kJ/mol	Joback Method
log10ws	-3.50		Crippen Method
logp	3.196		Crippen Method
mvol	125.870	ml/mol	McGowan Method
pc	3476.55	kPa	Joback Method
tb	547.81	K	Joback Method
tc	782.69	K	Joback Method
tf	341.15	K	Joback Method
vc	0.479	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	237.65	J/mol×K	547.81	Joback Method
cpg	278.97	J/mol×K	743.54	Joback Method
cpg	271.89	J/mol×K	704.39	Joback Method
cpg	264.24	J/mol×K	665.25	Joback Method
cpg	256.00	J/mol×K	626.10	Joback Method
cpg	247.15	J/mol×K	586.96	Joback Method
cpg	285.50	J/mol×K	782.69	Joback Method

dvisc	0.0002927	Paxs	547.81	Joback Method
dvisc	0.0003553	Paxs	513.37	Joback Method
dvisc	0.0004435	Paxs	478.92	Joback Method
dvisc	0.0005730	Paxs	444.48	Joback Method
dvisc	0.0007729	Paxs	410.04	Joback Method
dvisc	0.0011014	Paxs	375.59	Joback Method
dvisc	0.0016858	Paxs	341.15	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2040053&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2040053&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.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>

## 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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