

# Acetyl chloride, (2,4-dichlorophenoxy)-

<b>Other names:</b>	(2,4-Dichlorophenoxy)acetyl chloride
<b>Inchi:</b>	InChI=1S/C8H5Cl3O2/c9-5-1-2-7(6(10)3-5)13-4-8(11)12/h1-3H,4H2
<b>InchiKey:</b>	FUJSJWRORKKPAI-UHFFFAOYSA-N
<b>Formula:</b>	C8H5Cl3O2
<b>SMILES:</b>	O=C(Cl)COc1ccc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	239.48
<b>CAS:</b>	774-74-3

## Physical Properties

Property code	Value	Unit	Source
gf	-160.08	kJ/mol	Joback Method
hf	-286.88	kJ/mol	Joback Method
hfus	25.12	kJ/mol	Joback Method
hvap	59.31	kJ/mol	Joback Method
log10ws	-3.31		Crippen Method
logp	3.138		Crippen Method
mcvol	143.980	ml/mol	McGowan Method
pc	3265.31	kPa	Joback Method
tb	607.66	K	Joback Method
tc	843.00	K	Joback Method
tf	393.30	K	Joback Method
vc	0.546	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.20	J/molxK	607.66	Joback Method
cpg	287.86	J/molxK	646.88	Joback Method
cpg	295.93	J/molxK	686.11	Joback Method
cpg	303.40	J/molxK	725.33	Joback Method
cpg	310.29	J/molxK	764.55	Joback Method
cpg	316.60	J/molxK	803.78	Joback Method
cpg	322.34	J/molxK	843.00	Joback Method
dvisc	0.0012328	Paxs	393.30	Joback Method

dvisc	0.0008286	Paxs	429.03	Joback Method
dvisc	0.0005919	Paxs	464.75	Joback Method
dvisc	0.0004437	Paxs	500.48	Joback Method
dvisc	0.0003456	Paxs	536.21	Joback Method
dvisc	0.0002777	Paxs	571.93	Joback Method
dvisc	0.0002290	Paxs	607.66	Joback Method

## Sources

<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=C774743&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C774743&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</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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