

# Formic acid, (2,4-dichlorophenyl)methyl ester

<b>Inchi:</b>	InChI=1S/C8H6Cl2O2/c9-7-2-1-6(4-12-5-11)8(10)3-7/h1-3,5H,4H2
<b>InchiKey:</b>	PZOSAFWCZRMFHO-UHFFFAOYSA-N
<b>Formula:</b>	C8H6Cl2O2
<b>SMILES:</b>	O=COCc1ccc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	205.04

## Physical Properties

Property code	Value	Unit	Source
gf	-118.75	kJ/mol	Joback Method
hf	-244.14	kJ/mol	Joback Method
hfus	21.61	kJ/mol	Joback Method
hvap	54.90	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	2.666		Crippen Method
mcvol	131.740	ml/mol	McGowan Method
pc	3452.08	kPa	Joback Method
rinpol	1435.00		NIST Webbook
tb	565.02	K	Joback Method
tc	791.18	K	Joback Method
tf	355.45	K	Joback Method
vc	0.508	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	260.21	J/molxK	565.02	Joback Method
cpg	269.33	J/molxK	602.71	Joback Method
cpg	277.90	J/molxK	640.41	Joback Method
cpg	285.92	J/molxK	678.10	Joback Method
cpg	293.41	J/molxK	715.79	Joback Method
cpg	300.37	J/molxK	753.49	Joback Method
cpg	306.80	J/molxK	791.18	Joback Method
dvisc	0.0014631	Paxs	355.45	Joback Method
dvisc	0.0009653	Paxs	390.38	Joback Method

dvisc	0.0006819	Paxs	425.31	Joback Method
dvisc	0.0005078	Paxs	460.24	Joback Method
dvisc	0.0003942	Paxs	495.16	Joback Method
dvisc	0.0003164	Paxs	530.09	Joback Method
dvisc	0.0002610	Paxs	565.02	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=U368901&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U368901&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>

## 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>rinpol:</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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