

# ortho-Formylphenoxyacetic acid

<b>Other names:</b>	2-Formylphenoxyacetic acid Acetic acid, (2-formylphenoxy)- o-Formylphenoxyacetic acid Acetic acid, (o-formylphenoxy)- 2-(2-Formylphenoxy)acetic acid 2-Carboxymethoxybenzaldehyde
<b>Inchi:</b>	InChI=1S/C9H8O4/c10-5-7-3-1-2-4-8(7)13-6-9(11)12/h1-5H,6H2,(H,11,12)
<b>InchiKey:</b>	ANWMNLAAFDCKMT-UHFFFAOYSA-N
<b>Formula:</b>	C9H8O4
<b>SMILES:</b>	O=Cc1ccccc1OCC(=O)O
<b>Mol. weight [g/mol]:</b>	180.16
<b>CAS:</b>	6280-80-4

## Physical Properties

Property code	Value	Unit	Source
gf	-342.58	kJ/mol	Joback Method
hf	-486.64	kJ/mol	Joback Method
hfus	21.88	kJ/mol	Joback Method
hvap	71.12	kJ/mol	Joback Method
log10ws	-1.35		Crippen Method
logp	0.962		Crippen Method
mcvol	128.790	ml/mol	McGowan Method
pc	4140.93	kPa	Joback Method
tb	654.11	K	Joback Method
tc	859.10	K	Joback Method
tf	405.11	K	Joback Method
vc	0.491	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	314.59	J/mol×K	654.11	Joback Method
cpg	323.40	J/mol×K	688.27	Joback Method
cpg	331.64	J/mol×K	722.44	Joback Method

cpg	339.34	J/molxK	756.60	Joback Method
cpg	346.49	J/molxK	790.77	Joback Method
cpg	353.11	J/molxK	824.93	Joback Method
cpg	359.21	J/molxK	859.10	Joback Method
dvisc	0.0019234	Paxs	405.11	Joback Method
dvisc	0.0008776	Paxs	446.61	Joback Method
dvisc	0.0004576	Paxs	488.11	Joback Method
dvisc	0.0002643	Paxs	529.61	Joback Method
dvisc	0.0001653	Paxs	571.11	Joback Method
dvisc	0.0001102	Paxs	612.61	Joback Method
dvisc	0.0000773	Paxs	654.11	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=C6280804&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6280804&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>
<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>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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