

# 3-Acetoxybenzaldehyde

<b>Other names:</b>	Benzaldehyde, 3-(acetyloxy)- 3-formylphenyl acetate
<b>Inchi:</b>	InChI=1S/C9H8O3/c1-7(11)12-9-4-2-3-8(5-9)6-10/h2-6H,1H3
<b>InchiKey:</b>	GVUMZPWBUAGJBP-UHFFFAOYSA-N
<b>Formula:</b>	C9H8O3
<b>SMILES:</b>	CC(=O)Oc1cccc(C=O)c1
<b>Mol. weight [g/mol]:</b>	164.16
<b>CAS:</b>	34231-78-2

## Physical Properties

Property code	Value	Unit	Source
gf	-205.76	kJ/mol	Joback Method
hf	-334.41	kJ/mol	Joback Method
hfus	17.79	kJ/mol	Joback Method
hvap	54.44	kJ/mol	Joback Method
log10ws	-2.03		Crippen Method
logp	1.424		Crippen Method
mvol	122.920	ml/mol	McGowan Method
pc	3690.97	kPa	Joback Method
tb	561.93	K	Joback Method
tc	782.61	K	Joback Method
tf	344.29	K	Joback Method
vc	0.472	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.43	J/molxK	561.93	Joback Method
cpg	319.18	J/molxK	745.83	Joback Method
cpg	310.88	J/molxK	709.05	Joback Method
cpg	301.97	J/molxK	672.27	Joback Method
cpg	292.43	J/molxK	635.49	Joback Method
cpg	282.25	J/molxK	598.71	Joback Method
cpg	326.87	J/molxK	782.61	Joback Method

dvisc	0.0002676	Paxs	561.93	Joback Method
dvisc	0.0003297	Paxs	525.66	Joback Method
dvisc	0.0004191	Paxs	489.38	Joback Method
dvisc	0.0005535	Paxs	453.11	Joback Method
dvisc	0.0007674	Paxs	416.84	Joback Method
dvisc	0.0011322	Paxs	380.56	Joback Method
dvisc	0.0018131	Paxs	344.29	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=C34231782&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C34231782&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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