

# p-Butyryloxybenzaldehyde

<b>Other names:</b>	Butanoic acid, 4-formylphenyl ester
<b>Inchi:</b>	InChI=1S/C11H12O3/c1-2-3-11(13)14-10-6-4-9(8-12)5-7-10/h4-8H,2-3H2,1H3
<b>InchiKey:</b>	DAFTVVBQFUITOL-UHFFFAOYSA-N
<b>Formula:</b>	C11H12O3
<b>SMILES:</b>	CCCC(=O)Oc1ccc(C=O)cc1
<b>Mol. weight [g/mol]:</b>	192.21
<b>CAS:</b>	50262-49-2

## Physical Properties

Property code	Value	Unit	Source
gf	-188.92	kJ/mol	Joback Method
hf	-375.69	kJ/mol	Joback Method
hfus	22.97	kJ/mol	Joback Method
hvap	58.89	kJ/mol	Joback Method
log10ws	-2.86		Crippen Method
logp	2.205		Crippen Method
mcvol	151.100	ml/mol	McGowan Method
pc	2960.12	kPa	Joback Method
tb	607.69	K	Joback Method
tc	820.81	K	Joback Method
tf	366.83	K	Joback Method
vc	0.585	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	363.60	J/molxK	607.69	Joback Method
cpg	376.20	J/molxK	643.21	Joback Method
cpg	388.04	J/molxK	678.73	Joback Method
cpg	399.15	J/molxK	714.25	Joback Method
cpg	409.54	J/molxK	749.77	Joback Method
cpg	419.22	J/molxK	785.29	Joback Method
cpg	428.22	J/molxK	820.81	Joback Method
dvisc	0.0017588	Paxs	366.83	Joback Method

dvisc	0.0010582	Paxs	406.97	Joback Method
dvisc	0.0006975	Paxs	447.12	Joback Method
dvisc	0.0004925	Paxs	487.26	Joback Method
dvisc	0.0003666	Paxs	527.40	Joback Method
dvisc	0.0002846	Paxs	567.55	Joback Method
dvisc	0.0002284	Paxs	607.69	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	408.50 ± 1.50	K	0.10	NIST Webbook

## 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=C50262492&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C50262492&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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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