

# Benzaldehyde, 4-(octyloxy)-

<b>Other names:</b>	4-Octyloxybenzaldehyde p-Octyloxybenzaldehyde p-n-Octoxy benzaldehyde 4-n-Octyloxybenzaldehyde p-n-Octyloxybenzaldehyde
<b>Inchi:</b>	InChI=1S/C15H22O2/c1-2-3-4-5-6-7-12-17-15-10-8-14(13-16)9-11-15/h8-11,13H,2-7,12H
<b>InchiKey:</b>	KVOWZHASDIKNFK-UHFFFAOYSA-N
<b>Formula:</b>	C15H22O2
<b>SMILES:</b>	CCCCCCCCOc1ccc(C=O)cc1
<b>Mol. weight [g/mol]:</b>	234.33
<b>CAS:</b>	24083-13-4

## Physical Properties

Property code	Value	Unit	Source
gf	-26.32	kJ/mol	Joback Method
hf	-345.67	kJ/mol	Joback Method
hfus	31.73	kJ/mol	Joback Method
hvap	61.05	kJ/mol	Joback Method
log10ws	-4.76		Crippen Method
logp	4.238		Crippen Method
mcvol	205.890	ml/mol	McGowan Method
pc	1915.26	kPa	Joback Method
tb	645.34	K	Joback Method
tc	839.84	K	Joback Method
tf	361.98	K	Joback Method
vc	0.802	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	546.04	J/mol×K	645.34	Joback Method
cpg	619.11	J/mol×K	807.43	Joback Method
cpg	606.14	J/mol×K	775.01	Joback Method
cpg	592.37	J/mol×K	742.59	Joback Method

cpg	577.78	J/molxK	710.17	Joback Method
cpg	562.35	J/molxK	677.76	Joback Method
cpg	631.30	J/molxK	839.84	Joback Method
dvisc	0.0001492	Paxs	645.34	Joback Method
dvisc	0.0001910	Paxs	598.11	Joback Method
dvisc	0.0002551	Paxs	550.89	Joback Method
dvisc	0.0003597	Paxs	503.66	Joback Method
dvisc	0.0005447	Paxs	456.43	Joback Method
dvisc	0.0009078	Paxs	409.21	Joback Method
dvisc	0.0017284	Paxs	361.98	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	423.50 ± 0.50	K	0.10	NIST Webbook

## 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=C24083134&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24083134&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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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