

Benzaldehyde, 4-(heptyloxy)-

Other names:	4-n-Heptyloxybenzaldehyde 4-(Heptyloxy)benzaldehyde p-Heptyloxybenzaldehyde p-n-Heptoxybenzaldehyde 4-n-Heptoxybenzaldehyde p-n-Heptyloxybenzaldehyde
Inchi:	InChI=1S/C14H20O2/c1-2-3-4-5-6-11-16-14-9-7-13(12-15)8-10-14/h7-10,12H,2-6,11H2,1
InchiKey:	YBCKMIZXHKVONZ-UHFFFAOYSA-N
Formula:	C14H20O2
SMILES:	CCCCCCCOC1CCC(C=O)CC1
Mol. weight [g/mol]:	220.31
CAS:	27893-41-0

Physical Properties

Property code	Value	Unit	Source
gf	-34.74	kJ/mol	Joback Method
hf	-325.03	kJ/mol	Joback Method
hfus	29.14	kJ/mol	Joback Method
hvap	58.83	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	3.848		Crippen Method
mcvol	191.800	ml/mol	McGowan Method
pc	2086.93	kPa	Joback Method
tb	622.46	K	Joback Method
tc	819.31	K	Joback Method
tf	350.71	K	Joback Method
vc	0.747	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	493.99	J/mol×K	622.46	Joback Method
cpg	564.88	J/mol×K	786.51	Joback Method
cpg	552.29	J/mol×K	753.70	Joback Method

cpg	538.93	J/mol×K	720.89	Joback Method
cpg	524.77	J/mol×K	688.08	Joback Method
cpg	509.80	J/mol×K	655.27	Joback Method
cpg	576.71	J/mol×K	819.31	Joback Method
dvisc	0.0001650	Pa×s	622.46	Joback Method
dvisc	0.0002104	Pa×s	577.17	Joback Method
dvisc	0.0002795	Pa×s	531.88	Joback Method
dvisc	0.0003914	Pa×s	486.59	Joback Method
dvisc	0.0005876	Pa×s	441.29	Joback Method
dvisc	0.0009678	Pa×s	396.00	Joback Method
dvisc	0.0018135	Pa×s	350.71	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	426.00 ± 1.00	K	0.10	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C27893410&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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