

Benzaldehyde, 3-(4-methoxyphenoxy)-

Other names:	3-(4-Methoxyphenoxy)benzaldehyde
Inchi:	InChI=1S/C14H12O3/c1-16-12-5-7-13(8-6-12)17-14-4-2-3-11(9-14)10-15/h2-10H,1H3
InchiKey:	WLFDEVVCXPTAQA-UHFFFAOYSA-N
Formula:	C14H12O3
SMILES:	<chem>COc1ccc(Oc2cccc(C=O)c2)cc1</chem>
Mol. weight [g/mol]:	228.24
CAS:	62373-80-2

Physical Properties

Property code	Value	Unit	Source
gf	-36.96	kJ/mol	Joback Method
hf	-232.19	kJ/mol	Joback Method
hfus	23.99	kJ/mol	Joback Method
hvap	64.17	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.300		Crippen Method
mcvol	173.910	ml/mol	McGowan Method
pc	2799.47	kPa	Joback Method
tb	676.54	K	Joback Method
tc	912.18	K	Joback Method
tf	411.88	K	Joback Method
vc	0.656	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	439.53	J/molxK	676.54	Joback Method
cpg	453.74	J/molxK	715.81	Joback Method
cpg	466.90	J/molxK	755.09	Joback Method
cpg	479.02	J/molxK	794.36	Joback Method
cpg	490.13	J/molxK	833.63	Joback Method
cpg	500.23	J/molxK	872.90	Joback Method
cpg	509.35	J/molxK	912.18	Joback Method
dvisc	0.0008979	Paxs	411.88	Joback Method

dvisc	0.0005575	Paxs	455.99	Joback Method
dvisc	0.0003764	Paxs	500.10	Joback Method
dvisc	0.0002709	Paxs	544.21	Joback Method
dvisc	0.0002048	Paxs	588.32	Joback Method
dvisc	0.0001610	Paxs	632.43	Joback Method
dvisc	0.0001306	Paxs	676.54	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	418.20	K	0.05	NIST Webbook

Sources

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=C62373802&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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