

Benzaldehyde, 3-methoxy-4-(phenylmethoxy)-

Other names:	Benzaldehyde, 4-(benzyloxy)-3-methoxy- 4-(Benzyloxy)-3-methoxybenzaldehyde Benzylvanillin O-Benzylvanillin 4-O-Benzylvanillin 3-Methoxy-4-(benzyloxy)benzaldehyde Vanillin benzyl ether Benzaldehyde, 4-benzyloxy-5-methoxy- 3-Methoxy-4-(phenylmethoxy)benzaldehyde NSC 208757 NSC 22599 NSC 44876
Inchi:	InChI=1S/C15H14O3/c1-17-15-9-13(10-16)7-8-14(15)18-11-12-5-3-2-4-6-12/h2-10H,11H
InchiKey:	JSHLOPGSDZTEGQ-UHFFFAOYSA-N
Formula:	C15H14O3
SMILES:	<chem>COc1cc(C=O)ccc1OCc1ccccc1</chem>
Mol. weight [g/mol]:	242.27
CAS:	2426-87-1

Physical Properties

Property code	Value	Unit	Source
gf	-28.54	kJ/mol	Joback Method
hf	-252.83	kJ/mol	Joback Method
hfus	26.57	kJ/mol	Joback Method
hvap	66.40	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	3.087		Crippen Method
mcvol	188.000	ml/mol	McGowan Method
pc	2535.37	kPa	Joback Method
tb	699.42	K	Joback Method
tc	930.48	K	Joback Method
tf	423.15	K	Joback Method
vc	0.713	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	490.93	J/molxK	699.42	Joback Method
cpg	553.77	J/molxK	891.97	Joback Method
cpg	543.29	J/molxK	853.46	Joback Method
cpg	531.79	J/molxK	814.95	Joback Method
cpg	519.24	J/molxK	776.44	Joback Method
cpg	505.63	J/molxK	737.93	Joback Method
cpg	563.24	J/molxK	930.48	Joback Method
dvisc	0.0001178	Paxs	699.42	Joback Method
dvisc	0.0001460	Paxs	653.38	Joback Method
dvisc	0.0001868	Paxs	607.33	Joback Method
dvisc	0.0002488	Paxs	561.29	Joback Method
dvisc	0.0003489	Paxs	515.24	Joback Method
dvisc	0.0005229	Paxs	469.19	Joback Method
dvisc	0.0008558	Paxs	423.15	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C2426871&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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