

Benzaldehyde, 4-(phenylmethoxy)-

Other names:	Benzaldehyde, p-(benzyloxy)- p-(Benzyloxy)benzaldehyde 4-(Benzyloxy)benzaldehyde 4-(Phenylmethoxy)benzaldehyde Benzyl 4-formylphenyl ether
Inchi:	InChI=1S/C14H12O2/c15-10-12-6-8-14(9-7-12)16-11-13-4-2-1-3-5-13/h1-10H,11H2
InchiKey:	ZVTWZSXLLMNMQC-UHFFFAOYSA-N
Formula:	C14H12O2
SMILES:	O=Cc1ccc(OCc2ccccc2)cc1
Mol. weight [g/mol]:	212.24
CAS:	4397-53-9

Physical Properties

Property code	Value	Unit	Source
gf	77.67	kJ/mol	Joback Method
hf	-88.50	kJ/mol	Joback Method
hfus	23.19	kJ/mol	Joback Method
hvap	61.10	kJ/mol	Joback Method
ie	8.70	eV	NIST Webbook
log10ws	-3.94		Crippen Method
logp	3.078		Crippen Method
mcvol	168.040	ml/mol	McGowan Method
pc	2896.73	kPa	Joback Method
tb	649.14	K	Joback Method
tc	887.50	K	Joback Method
tf	377.13	K	Joback Method
vc	0.638	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	415.60	J/mol×K	649.14	Joback Method
cpg	430.38	J/mol×K	688.87	Joback Method
cpg	444.03	J/mol×K	728.59	Joback Method

cpg	456.60	J/mol×K	768.32	Joback Method
cpg	468.14	J/mol×K	808.05	Joback Method
cpg	478.69	J/mol×K	847.77	Joback Method
cpg	488.29	J/mol×K	887.50	Joback Method
dvisc	0.0014593	Pa×s	377.13	Joback Method
dvisc	0.0008357	Pa×s	422.46	Joback Method
dvisc	0.0005332	Pa×s	467.80	Joback Method
dvisc	0.0003683	Pa×s	513.13	Joback Method
dvisc	0.0002702	Pa×s	558.47	Joback Method
dvisc	0.0002076	Pa×s	603.81	Joback Method
dvisc	0.0001655	Pa×s	649.14	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4397539&Units=SI
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

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
ie:	Ionization energy
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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