Phenol, 2-(phenylmethoxy)-

Other names:	Benzyl o-hydroxyphenyl ether
	o-(Benzyloxy)phenol
	2-(Benzyloxy)phenol
	Phenol, o-(benzyloxy)-
Inchi:	InChI=1S/C13H12O2/c14-12-8-4-5-9-13(12)15-10-11-6-2-1-3-7-11/h1-9,14H,10H2
InchiKey:	CCZCXFHJMKINPE-UHFFFAOYSA-N
Formula:	C13H12O2
SMILES:	Oc1ccccc1OCc1ccccc1
Mol. weight [g/mol]:	200.23
CAS:	6272-38-4

Physical Properties

Property code	Value	Unit	Source
gf	23.78	kJ/mol	Joback Method
hf	-148.12	kJ/mol	Joback Method
hfus	24.48	kJ/mol	Joback Method
hvap	64.51	kJ/mol	Joback Method
log10ws	-3.25		Crippen Method
logp	2.971		Crippen Method
mcvol	158.250	ml/mol	McGowan Method
pc	3577.07	kPa	Joback Method
tb	653.24	K	Joback Method
tc	903.38	K	Joback Method
tf	423.06	K	Joback Method
vc	0.531	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	401.47	J/mol×K	653.24	Joback Method
cpg	415.76	J/mol×K	694.93	Joback Method
cpg	428.94	J/mol×K	736.62	Joback Method
cpg	441.11	J/mol×K	778.31	Joback Method
cpg	452.41	J/mol×K	820.00	Joback Method

cpg	462.93	J/mol×K	861.69	Joback Method
cpg	472.81	J/mol×K	903.38	Joback Method
dvisc	0.0006297	Pa×s	423.06	Joback Method
dvisc	0.0002739	Pa×s	461.42	Joback Method
dvisc	0.0001354	Pa×s	499.79	Joback Method
dvisc	0.0000740	Pa×s	538.15	Joback Method
dvisc	0.0000438	Pa×s	576.51	Joback Method
dvisc	0.0000277	Pa×s	614.88	Joback Method
dvisc	0.0000185	Pa×s	653.24	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	446.70	K	1.70	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C6272384&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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