Benzenemethanol, 3-phenoxy-

Other names:	m-Phenoxybenzyl alcohol
	3-Phenoxybenzenemethanol
	3-Phenoxybenzyl alcohol
	Benzyl alcohol, m-phenoxy-
	3-(Hydroxymethyl)diphenyl ether
	(3-Phenoxyphenyl)methanol
	3-phenoxybenzylic alcohol
Inchi:	InChI=1S/C13H12O2/c14-10-11-5-4-8-13(9-11)15-12-6-2-1-3-7-12/h1-9,14H,10H2
InchiKey:	KGANAERDZBAECK-UHFFFAOYSA-N
Formula:	C13H12O2
SMILES:	OCc1cccc(Oc2ccccc2)c1
Mol. weight [g/mol]:	200.23
CAS:	13826-35-2

Physical Properties

Property code	Value	Unit	Source
gf	31.95	kJ/mol	Joback Method
hf	-134.51	kJ/mol	Joback Method
hfus	22.39	kJ/mol	Joback Method
hvap	68.84	kJ/mol	Joback Method
log10ws	-3.25		Crippen Method
logp	2.971		Crippen Method
mcvol	158.250	ml/mol	McGowan Method
pc	3287.81	kPa	Joback Method
rinpol	1836.50		NIST Webbook
rinpol	1836.50		NIST Webbook
tb	669.78	K	Joback Method
tc	891.53	K	Joback Method
tf	384.68	K	Joback Method
vc	0.585	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	402.07	J/mol×K	669.78	Joback Method
cpg	457.27	J/mol×K	854.57	Joback Method
cpg	447.91	J/mol×K	817.61	Joback Method
cpg	437.74	J/mol×K	780.66	Joback Method
cpg	426.74	J/mol×K	743.70	Joback Method
cpg	414.86	J/mol×K	706.74	Joback Method
cpg	465.88	J/mol×K	891.53	Joback Method
dvisc	0.0000427	Pa×s	669.78	Joback Method
dvisc	0.0000628	Pa×s	622.26	Joback Method
dvisc	0.0000985	Pa×s	574.75	Joback Method
dvisc	0.0001677	Pa×s	527.23	Joback Method
dvisc	0.0003172	Pa×s	479.71	Joback Method
dvisc	0.0006901	Pa×s	432.20	Joback Method
dvisc	0.0018192	Pa×s	384.68	Joback Method

Sources

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=C13826352&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume