3-Phenoxybenzyl alcohol, methyl ether

Other names: m-Phenoxybenzyl methyl ether
Inchi: InChI=1S/C14H14O2/c1-15-11-12-6-5-9-14(10-12)16-13-7-3-2-4-8-13/h2-10H,11H2,1H3
InchiKey: SKSSDFHBOHEHQQ-UHFFFAOYSA-N
Formula: C14H14O2
SMILES: COCc1cccc(Oc2ccccc2)c1
Mol. weight [g/mol]: 214.26

Physical Properties

Property code	Value	Unit	Source
gf	72.19	kJ/mol	Joback Method
hf	-135.14	kJ/mol	Joback Method
hfus	22.08	kJ/mol	Joback Method
hvap	56.79	kJ/mol	Joback Method
log10ws	-3.49		Crippen Method
logp	3.625		Crippen Method
mcvol	172.340	ml/mol	McGowan Method
pc	2632.55	kPa	Joback Method
rinpol	2013.00		NIST Webbook
rinpol	2013.00		NIST Webbook
tb	622.90	K	Joback Method
tc	856.47	K	Joback Method
tf	357.36	K	Joback Method
vc	0.639	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	423.44	J/mol×K	622.90	Joback Method
cpg	439.89	J/mol×K	661.83	Joback Method
cpg	455.22	J/mol×K	700.76	Joback Method
cpg	469.45	J/mol×K	739.69	Joback Method
cpg	482.63	J/mol×K	778.61	Joback Method
cpg	494.76	J/mol×K	817.54	Joback Method
cpg	505.87	J/mol×K	856.47	Joback Method

dvisc	0.0010891	Pa×s	357.36	Joback Method
dvisc	0.0006084	Pa×s	401.62	Joback Method
dvisc	0.0003815	Pa×s	445.87	Joback Method
dvisc	0.0002603	Pa×s	490.13	Joback Method
dvisc	0.0001892	Pa×s	534.39	Joback Method
dvisc	0.0001444	Pa×s	578.64	Joback Method
dvisc	0.0001145	Pa×s	622.90	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U395174&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
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