2-Methoxybenzyl alcohol, 2-methylpropyl ether

Inchi: InChI=1S/C12H18O2/c1-10(2)8-14-9-11-6-4-5-7-12(11)13-3/h4-7,10H,8-9H2,1-3H3
InchiKey: SAHQWLNZCJVIOC-UHFFFAOYSA-N
Formula: C12H18O2
SMILES: COc1ccccc1COCC(C)C
Mol. weight [g/mol]: 194.27

Physical Properties

Property code	Value	Unit	Source
gf	-59.50	kJ/mol	Joback Method
hf	-335.67	kJ/mol	Joback Method
hfus	19.34	kJ/mol	Joback Method
hvap	49.68	kJ/mol	Joback Method
log10ws	-2.99		Crippen Method
logp	2.868		Crippen Method
mcvol	167.920	ml/mol	McGowan Method
pc	2311.39	kPa	Joback Method
rinpol	1430.00		NIST Webbook
tb	550.02	K	Joback Method
tc	751.26	K	Joback Method
tf	293.40	K	Joback Method
vc	0.629	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.86	J/mol×K	550.02	Joback Method
cpg	415.03	J/mol×K	583.56	Joback Method
cpg	430.43	J/mol×K	617.10	Joback Method
cpg	445.09	J/mol×K	650.64	Joback Method
cpg	459.00	J/mol×K	684.18	Joback Method
cpg	472.18	J/mol×K	717.72	Joback Method
cpg	484.61	J/mol×K	751.26	Joback Method
dvisc	0.0019359	Pa×s	293.40	Joback Method
dvisc	0.0009244	Pa×s	336.17	Joback Method

dvisc	0.0005216	Pa×s	378.94	Joback Method
dvisc	0.0003305	Pa×s	421.71	Joback Method
dvisc	0.0002278	Pa×s	464.48	Joback Method
dvisc	0.0001672	Pa×s	507.25	Joback Method
dvisc	0.0001287	Pa×s	550.02	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U378190&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume