(3-Methoxyphenyl) methanol, 2-methylbutyl ether

Inchi: InChI=1S/C13H20O2/c1-4-11(2)9-15-10-12-6-5-7-13(8-12)14-3/h5-8,11H,4,9-10H2,1-3H

InchiKey: SZDSQJQEAAYUTJ-UHFFFAOYSA-N

Formula: C13H20O2

SMILES: CCC(C)COCc1cccc(OC)c1

Mol. weight [g/mol]: 208.30

Physical Properties

Property code	Value	Unit	Source
gf	-51.08	kJ/mol	Joback Method
hf	-356.31	kJ/mol	Joback Method
hfus	21.93	kJ/mol	Joback Method
hvap	51.90	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	3.258		Crippen Method
mcvol	182.010	ml/mol	McGowan Method
pc	2111.94	kPa	Joback Method
rinpol	1556.00		NIST Webbook
tb	572.90	K	Joback Method
tc	771.30	K	Joback Method
tf	304.67	K	Joback Method
vc	0.685	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	447.87	J/mol×K	572.90	Joback Method
cpg	464.73	J/mol×K	605.97	Joback Method
cpg	480.79	J/mol×K	639.03	Joback Method
cpg	496.06	J/mol×K	672.10	Joback Method
cpg	510.54	J/mol×K	705.17	Joback Method
cpg	524.23	J/mol×K	738.24	Joback Method
cpg	537.16	J/mol×K	771.30	Joback Method
dvisc	0.0018691	Pa×s	304.67	Joback Method
dvisc	0.0008781	Pa×s	349.38	Joback Method

dvisc	0.0004897	Pa×s	394.08	Joback Method
dvisc	0.0003076	Pa×s	438.78	Joback Method
dvisc	0.0002105	Pa×s	483.49	Joback Method
dvisc	0.0001537	Pa×s	528.19	Joback Method
dvisc	0.0001178	Pa×s	572.90	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U374436&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