Benzenepropanol, 2-methoxy-

Other names:	1-Propanol, 3-(o-methoxyphenyl)-
	3-o-Methoxyphenylpropan-1-ol
	3-Guaiacyl propanol
	3-(O-Methoxy phenyl)-1-propanol
	2-Methoxyphenylpropanol
Inchi:	InChI=1S/C10H14O2/c1-12-10-7-3-2-5-9(10)6-4-8-11/h2-3,5,7,11H,4,6,8H2,1H3
InchiKey:	KCJSIKPCRQDRNX-UHFFFAOYSA-N
Formula:	C10H14O2
SMILES:	COc1ccccc1CCCO
Mol. weight [g/mol]:	166.22
CAS:	10493-37-5

Physical Properties

Property code	Value	Unit	Source
gf	-105.72	kJ/mol	Joback Method
hf	-309.12	kJ/mol	Joback Method
hfus	20.58	kJ/mol	Joback Method
hvap	59.88	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	1.620		Crippen Method
mcvol	139.740	ml/mol	McGowan Method
pc	3131.49	kPa	Joback Method
rinpol	1454.00		NIST Webbook
tb	574.46	K	Joback Method
tc	766.44	K	Joback Method
tf	324.45	K	Joback Method
vc	0.524	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.41	J/mol×K	574.46	Joback Method
cpg	389.74	J/mol×K	734.44	Joback Method
cpg	380.01	J/mol×K	702.45	Joback Method

cpg	369.72	J/mol×K	670.45	Joback Method
cpg	358.87	J/mol×K	638.45	Joback Method
cpg	347.43	J/mol×K	606.46	Joback Method
cpg	398.94	J/mol×K	766.44	Joback Method
dvisc	0.0000766	Pa×s	574.46	Joback Method
dvisc	0.0001164	Pa×s	532.79	Joback Method
dvisc	0.0001900	Pa×s	491.12	Joback Method
dvisc	0.0003395	Pa×s	449.46	Joback Method
dvisc	0.0006831	Pa×s	407.79	Joback Method
dvisc	0.0016119	Pa×s	366.12	Joback Method
dvisc	0.0047415	Pa×s	324.45	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=C10493375&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