4-(4-Methoxyphenyl)-1-butanol

Other names:	4-(p-Methoxyphenyl)butanol
	Benzenebutanol, 4-methoxy-
	4-(4-Methoxyphenyl)butan-1-ol
	4-Methoxybenzenebutanol
Inchi:	InChI=1S/C11H16O2/c1-13-11-7-5-10(6-8-11)4-2-3-9-12/h5-8,12H,2-4,9H2,1H3
InchiKey:	ONIBHZIXCLTLNO-UHFFFAOYSA-N
Formula:	C11H16O2
SMILES:	COc1ccc(CCCCO)cc1
Mol. weight [g/mol]:	180.24
CAS:	52244-70-9

Physical Properties

Property code	Value	Unit	Source
gf	-97.30	kJ/mol	Joback Method
hf	-329.76	kJ/mol	Joback Method
hfus	23.17	kJ/mol	Joback Method
hvap	62.11	kJ/mol	Joback Method
log10ws	-2.49		Crippen Method
logp	2.010		Crippen Method
mcvol	153.830	ml/mol	McGowan Method
pc	2820.33	kPa	Joback Method
tb	597.34	K	Joback Method
tc	787.04	K	Joback Method
tf	335.72	K	Joback Method
vc	0.581	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	383.03	J/mol×K	597.34	Joback Method
cpg	395.82	J/mol×K	628.96	Joback Method
cpg	407.97	J/mol×K	660.57	Joback Method
cpg	419.50	J/mol×K	692.19	Joback Method
cpg	430.43	J/mol×K	723.81	Joback Method

cpg	440.78	J/mol×K	755.43	Joback Method
cpg	450.54	J/mol×K	787.04	Joback Method
dvisc	0.0040576	Pa×s	335.72	Joback Method
dvisc	0.0013705	Pa×s	379.32	Joback Method
dvisc	0.0005790	Pa×s	422.93	Joback Method
dvisc	0.0002874	Pa×s	466.53	Joback Method
dvisc	0.0001608	Pa×s	510.13	Joback Method
dvisc	0.0000986	Pa×s	553.74	Joback Method
dvisc	0.0000649	Pa×s	597.34	Joback Method

Sources

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=C52244709&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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