Benzenemethanol, 4-methyl-«alpha»-phenyl-

Other names:	4-Methylbenzhydrol
	p-Methylbenzhydrol
	Benzhydrol, 4-methyl-
	Phenyl-p-tolyl-methanol
	«alpha»-p-tolylbenzyl alcohol
Inchi:	InChI=1S/C14H14O/c1-11-7-9-13(10-8-11)14(15)12-5-3-2-4-6-12/h2-10,14-15H,1H3
InchiKey:	IHASOVONMUHDND-UHFFFAOYSA-N
Formula:	C14H14O
SMILES:	Cc1ccc(C(O)c2ccccc2)cc1
Mol. weight [g/mol]:	198.26
CAS:	1517-63-1

Physical Properties

Property code	Value	Unit	Source
gf	142.93	kJ/mol	Joback Method
hf	-28.21	kJ/mol	Joback Method
hfus	20.27	kJ/mol	Joback Method
hvap	68.26	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	3.077		Crippen Method
mcvol	166.470	ml/mol	McGowan Method
pc	3035.62	kPa	Joback Method
tb	669.80	K	Joback Method
tc	894.76	K	Joback Method
tf	358.72	K	Joback Method
vc	0.617	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	428.17	J/mol×K	669.80	Joback Method
cpg	442.12	J/mol×K	707.29	Joback Method
cpg	455.05	J/mol×K	744.79	Joback Method
cpg	467.02	J/mol×K	782.28	Joback Method

cpg	478.09	J/mol×K	819.77	Joback Method
cpg	488.33	J/mol×K	857.27	Joback Method
cpg	497.79	J/mol×K	894.76	Joback Method
dvisc	0.0036957	Pa×s	358.72	Joback Method
dvisc	0.0011159	Pa×s	410.57	Joback Method
dvisc	0.0004407	Pa×s	462.41	Joback Method
dvisc	0.0002099	Pa×s	514.26	Joback Method
dvisc	0.0001145	Pa×s	566.11	Joback Method
dvisc	0.0000692	Pa×s	617.95	Joback Method
dvisc	0.0000452	Pa×s	669.80	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1517631&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume