4-Methoxyphenyl methyl carbinol

Other names:	4-Methoxy-«alpha»-methylbenzyl alcohol
	1-(p-Methoxyphenyl)ethanol
	Benzenemethanol, 4-methoxy-«alpha»-methyl-
	1-(4-Methoxyphenyl) ethanol
Inchi:	InChI=1S/C9H12O2/c1-7(10)8-3-5-9(11-2)6-4-8/h3-7,10H,1-2H3
InchiKey:	IUUULXXWNYKJSL-UHFFFAOYSA-N
Formula:	C9H12O2
SMILES:	COc1ccc(C(C)O)cc1
Mol. weight [g/mol]:	152.19
CAS:	3319-15-1

Physical Properties

Property code	Value	Unit	Source
gf	-116.58	kJ/mol	Joback Method
hf	-293.76	kJ/mol	Joback Method
hfus	14.47	kJ/mol	Joback Method
hvap	57.27	kJ/mol	Joback Method
log10ws	-2.12		Crippen Method
logp	1.748		Crippen Method
mcvol	125.650	ml/mol	McGowan Method
pc	3530.46	kPa	Joback Method
tb	551.14	K	Joback Method
tc	749.61	K	Joback Method
tf	298.18	K	Joback Method
vc	0.463	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	289.88	J/mol×K	551.14	Joback Method
cpg	301.33	J/mol×K	584.22	Joback Method
cpg	312.20	J/mol×K	617.30	Joback Method
cpg	322.51	J/mol×K	650.37	Joback Method
cpg	332.27	J/mol×K	683.45	Joback Method

cpg	341.48	J/mol×K	716.53	Joback Method
cpg	350.17	J/mol×K	749.61	Joback Method
dvisc	0.0088416	Pa×s	298.18	Joback Method
dvisc	0.0025220	Pa×s	340.34	Joback Method
dvisc	0.0009485	Pa×s	382.50	Joback Method
dvisc	0.0004332	Pa×s	424.66	Joback Method
dvisc	0.0002279	Pa×s	466.82	Joback Method
dvisc	0.0001334	Pa×s	508.98	Joback Method
dvisc	0.0000847	Pa×s	551.14	Joback Method

Sources

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=C3319151&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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