Benzenemethanol, 4-methoxy-

Other names:	Benzyl alcohol, p-methoxy-
	p-Anisyl alcohol
	p-Methoxybenzyl alcohol
	Anise alcohol
	Anisic alcohol
	4-Methoxybenzyl alcohol
	Anisyl alcohol
	p-Anisol alcohol
	4-Methoxybenzenemethanol
	Anis alcohol
	4-Anisylalcohol
	4-(Hydroxymethyl)anisole
	NSC 2151
Inchi:	InChI=1S/C8H10O2/c1-10-8-4-2-7(6-9)3-5-8/h2-5,9H,6H2,1H3
InchiKey:	MSHFRERJPWKJFX-UHFFFAOYSA-N
Formula:	C8H10O2
SMILES:	COc1ccc(CO)cc1
Mol. weight [g/mol]:	138.16
CAS:	105-13-5

Physical Properties

Property code	Value	Unit	Source
gf	-122.56	kJ/mol	Joback Method
hf	-267.84	kJ/mol	Joback Method
hfus	15.40	kJ/mol	Joback Method
hvap	55.43	kJ/mol	Joback Method
log10ws	-1.73		Crippen Method
logp	1.188		Crippen Method
mcvol	111.560	ml/mol	McGowan Method
pc	3930.78	kPa	Joback Method
rinpol	1308.00		NIST Webbook
rinpol	1279.00		NIST Webbook
rinpol	1273.00		NIST Webbook
rinpol	1295.00		NIST Webbook
rinpol	1277.00		NIST Webbook
rinpol	1279.00		NIST Webbook
rinpol	1279.00		NIST Webbook

rinpol	1279.00		NIST Webbook
rinpol	1282.00		NIST Webbook
rinpol	1270.00		NIST Webbook
rinpol	1246.80		NIST Webbook
rinpol	1303.00		NIST Webbook
rinpol	1304.00		NIST Webbook
rinpol	1304.00		NIST Webbook
rinpol	1312.00		NIST Webbook
rinpol	1278.00		NIST Webbook
rinpol	1284.00		NIST Webbook
rinpol	1290.00		NIST Webbook
rinpol	1242.00		NIST Webbook
rinpol	1242.00		NIST Webbook
rinpol	1244.00		NIST Webbook
rinpol	1244.00		NIST Webbook
rinpol	1249.00		NIST Webbook
rinpol	1293.00		NIST Webbook
rinpol	1290.00		NIST Webbook
rinpol	1267.00		NIST Webbook
rinpol	1295.00		NIST Webbook
rinpol	1275.00		NIST Webbook
rinpol	1267.00		NIST Webbook
rinpol	1307.00		NIST Webbook
ripol	2268.00		NIST Webbook
ripol	2290.00		NIST Webbook
ripol	2305.00		NIST Webbook
ripol	2302.00		NIST Webbook
tb	532.30	K	NIST Webbook
tb	489.15 ± 2.00	K	NIST Webbook
tc	725.76	K	Joback Method
tf	290.15 ± 1.50	K	NIST Webbook
vc	0.412	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	291.49	J/mol×K	692.92	Joback Method
cpg	283.23	J/mol×K	660.07	Joback Method
cpg	274.50	J/mol×K	627.23	Joback Method
cpg	265.29	J/mol×K	594.39	Joback Method
cpg	255.61	J/mol×K	561.54	Joback Method

cpg	245.43	J/mol×K	528.70	Joback Method
cpg	299.29	J/mol×K	725.76	Joback Method
dvisc	0.0063822	Pa×s	301.91	Joback Method
dvisc	0.0001055	Pa×s	528.70	Joback Method
dvisc	0.0001606	Pa×s	490.90	Joback Method
dvisc	0.0002624	Pa×s	453.10	Joback Method
dvisc	0.0004686	Pa×s	415.31	Joback Method
dvisc	0.0009401	Pa×s	377.51	Joback Method
dvisc	0.0022019	Pa×s	339.71	Joback Method
hvapt	95.60	kJ/mol	409.00	NIST Webbook
hvapt	71.70	kJ/mol	403.50	NIST Webbook

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=C105135&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
hvapt: Enthalpy of vaporization at a given temperature
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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point

vc: Critical Volume