Benzenamine, 4-methoxy-2-methyl-

Other names:	p-Anisidine, 2-methyl-
	2-Methyl-p-anisidine
	2-Methyl-4-methoxyaniline
	4-Methoxy-2-methylaniline
	m-Cresidine
	NCI-C02993
	4-Methoxy-2-methylbenzenamine
	4-methoxy-o-toluidine
Inchi:	InChI=1S/C8H11NO/c1-6-5-7(10-2)3-4-8(6)9/h3-5H,9H2,1-2H3
InchiKey:	CDGNLUSBENXDGG-UHFFFAOYSA-N
Formula:	C8H11NO
SMILES:	COc1ccc(N)c(C)c1
Mol. weight [g/mol]:	137.18
CAS:	102-50-1

Physical Properties

Property code	Value	Unit	Source
gf	71.08	kJ/mol	Joback Method
hf	-93.29	kJ/mol	Joback Method
hfus	16.12	kJ/mol	Joback Method
hvap	50.05	kJ/mol	Joback Method
log10ws	-1.70		Crippen Method
logp	1.586		Crippen Method
mcvol	115.670	ml/mol	McGowan Method
pc	3695.46	kPa	Joback Method
tb	521.70	K	NIST Webbook
tc	737.17	K	Joback Method
tf	336.87	K	Joback Method
vc	0.422	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	251.04	J/mol×K	514.03	Joback Method

cpg	263.00	J/mol×K	551.22	Joback Method
cpg	274.37	J/mol×K	588.41	Joback Method
cpg	285.14	J/mol×K	625.60	Joback Method
cpg	295.33	J/mol×K	662.79	Joback Method
cpg	304.95	J/mol×K	699.98	Joback Method
cpg	313.99	J/mol×K	737.17	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C102501&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
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