

Benzenamine, 4-methoxy-

Other names:	p-Anisidine p-Aminoanisole p-Anisylamine p-Methoxyaniline p-Methoxyphenylamine 4-Aminoanisole 4-Anisidine 4-Methoxyaniline 4-Methoxybenzenamine 4-Methoxybenzeneamine para-Anisidine Aniline, p-methoxy- Anisole, p-amino- 1-Amino-4-methoxybenzene 4-Methoxy-1-aminobenzene NSC 7921 Anisidine
Inchi:	InChI=1S/C7H9NO/c1-9-7-4-2-6(8)3-5-7/h2-5H,8H2,1H3
InchiKey:	BHAAPTBBJKJZER-UHFFFAOYSA-N
Formula:	C7H9NO
SMILES:	COc1ccc(N)cc1
Mol. weight [g/mol]:	123.15
CAS:	104-94-9

Physical Properties

Property code	Value	Unit	Source
affp	900.30	kJ/mol	NIST Webbook
basg	868.50	kJ/mol	NIST Webbook
gf	72.29	kJ/mol	Joback Method
hf	-61.18	kJ/mol	Joback Method
hfus	13.92	kJ/mol	Joback Method
hvap	47.17	kJ/mol	Joback Method
ie	7.58	eV	NIST Webbook
ie	7.82	eV	NIST Webbook
ie	7.40 ± 0.10	eV	NIST Webbook
ie	7.58 ± 0.01	eV	NIST Webbook
ie	9.39	eV	NIST Webbook

ie	7.44	eV	NIST Webbook
ie	7.60 ± 0.10	eV	NIST Webbook
ie	6.92	eV	NIST Webbook
ie	7.08	eV	NIST Webbook
log10ws	-1.23		Crippen Method
logp	1.277		Crippen Method
mcvol	101.580	ml/mol	McGowan Method
pc	4249.61	kPa	Joback Method
rinpol	1199.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1199.00		NIST Webbook
tb	516.15 ± 1.00	K	NIST Webbook
tb	514.70	K	NIST Webbook
tc	711.90	K	Joback Method
tf	331.20 ± 0.20	K	NIST Webbook
tf	330.35 ± 0.50	K	NIST Webbook
vc	0.366	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.54	J/mol×K	486.17	Joback Method
cpg	220.65	J/mol×K	523.79	Joback Method
cpg	231.16	J/mol×K	561.41	Joback Method
cpg	241.09	J/mol×K	599.03	Joback Method
cpg	250.46	J/mol×K	636.65	Joback Method
cpg	259.26	J/mol×K	674.27	Joback Method
cpg	267.51	J/mol×K	711.90	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C104949&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

affp:	Proton affinity
basg:	Gas basicity
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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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