Phenol, 4-amino-3-methyl-

Other names:	m-Cresol, 4-amino-
	p-Amino-m-cresol
	p-Hydroxy-o-toluidine
	2-Methyl-4-hydroxyaniline
	3-Methyl-4-aminophenol
	4-Amino-m-cresol
	4-Amino-3-methylphenol
	4-Hydroxy-2-methylaniline
Inchi:	InChI=1S/C7H9NO/c1-5-4-6(9)2-3-7(5)8/h2-4,9H,8H2,1H3
InchiKey:	QGNGOGOOPUYKMC-UHFFFAOYSA-N
Formula:	C7H9NO
SMILES:	Cc1cc(O)ccc1N
Mol. weight [g/mol]:	123.15
CAS:	2835-99-6

Physical Properties

Property code	Value	Unit	Source
gf	22.67	kJ/mol	Joback Method
hf	-106.27	kJ/mol	Joback Method
hfus	18.52	kJ/mol	Joback Method
hvap	57.77	kJ/mol	Joback Method
log10ws	-1.13		Crippen Method
logp	1.283		Crippen Method
mcvol	101.580	ml/mol	McGowan Method
pc	5343.52	kPa	Joback Method
tb	544.37	K	Joback Method
tc	786.12	K	Joback Method
tf	402.57	K	Joback Method
vc	0.315	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	232.06	J/mol×K	544.37	Joback Method

cpg	242.27	J/mol×K	584.66	Joback Method
cpg	251.69	J/mol×K	624.95	Joback Method
cpg	260.41	J/mol×K	665.24	Joback Method
cpg	268.53	J/mol×K	705.53	Joback Method
cpg	276.12	J/mol×K	745.83	Joback Method
cpg	283.26	J/mol×K	786.12	Joback Method

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=C2835996&Units=SI

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