2-Naphthalenamine, 3-methyl-

Other names:	2-Naphthylamine, 3-methyl-
	3-Methyl-2-naphthylamine
	3-Methyl-2-aminonaphthalene
Inchi:	InChI=1S/C11H11N/c1-8-6-9-4-2-3-5-10(9)7-11(8)12/h2-7H,12H2,1H3
InchiKey:	BJICIOTXNBTOAJ-UHFFFAOYSA-N
Formula:	C11H11N
SMILES:	Cc1cc2ccccc2cc1N
Mol. weight [g/mol]:	157.21
CAS:	10546-24-4

Physical Properties

Property code	Value	Unit	Source
gf	307.99	kJ/mol	Joback Method
hf	168.08	kJ/mol	Joback Method
hfus	19.73	kJ/mol	Joback Method
hvap	55.96	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	2.730		Crippen Method
mcvol	132.610	ml/mol	McGowan Method
pc	3581.35	kPa	Joback Method
rinpol	283.73		NIST Webbook
tb	579.23	K	Joback Method
tc	824.22	K	Joback Method
tf	381.15	K	Joback Method
vc	0.494	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.96	J/mol×K	579.23	Joback Method
cpg	320.42	J/mol×K	620.06	Joback Method
cpg	332.87	J/mol×K	660.89	Joback Method
cpg	344.39	J/mol×K	701.72	Joback Method
cpg	355.05	J/mol×K	742.55	Joback Method

cpg	364.93	J/mol×K	783.38	Joback Method
cpg	374.11	J/mol×K	824.22	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10546244&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume