N,N-Dimethyl-«beta»-naphthylamine

Other names: 2-Naphthalenamine, N,N-dimethyl-
dimethyl(2-naphthyl)amine
Inchi: InChI=1S/C12H13N/c1-13(2)12-8-7-10-5-3-4-6-11(10)9-12/h3-9H,1-2H3
InchiKey: IKZPRXHVTFNIEK-UHFFFAOYSA-N
Formula: C12H13N
SMILES: CN(C)c1ccc2ccccc2c1
Mol. weight [g/mol]: 171.24
CAS: 2436-85-3

Physical Properties

Property code	Value	Unit	Source
gf	370.37	kJ/mol	Joback Method
hf	192.65	kJ/mol	Joback Method
hfus	20.53	kJ/mol	Joback Method
hvap	48.93	kJ/mol	Joback Method
ie	7.12	eV	NIST Webbook
log10ws	-3.18		Crippen Method
logp	2.906		Crippen Method
mcvol	146.700	ml/mol	McGowan Method
pc	3049.04	kPa	Joback Method
tb	578.20	K	NIST Webbook
tb	486.15 ± 1.00	K	NIST Webbook
tc	763.74	K	Joback Method
tf	329.11	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.60	J/mol×K	537.04	Joback Method
cpg	346.53	J/mol×K	574.82	Joback Method
cpg	361.28	J/mol×K	612.61	Joback Method
cpg	374.94	J/mol×K	650.39	Joback Method
cpg	387.60	J/mol×K	688.17	Joback Method

cpg	399.32	J/mol×K	725.96	Joback Method
cpg	410.20	J/mol×K	763.74	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2436853&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
ie:	Ionization energy
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