8-Bromonaphthalen-1-ylamine

Other names: 8-bromo-1-naphthylamine
Inchi: InChI=1S/C10H8BrN/c11-8-5-1-3-7-4-2-6-9(12)10(7)8/h1-6H,12H2
InchiKey: FKFCNFNWFJYIJU-UHFFFAOYSA-N
Formula: C10H8BrN
SMILES: Nc1cccc2cccc(Br)c12
Mol. weight [g/mol]: 222.08
CAS: 62456-34-2

Physical Properties

Property code	Value	Unit	Source
gf	313.89	kJ/mol	Joback Method
hf	215.05	kJ/mol	Joback Method
hfus	22.42	kJ/mol	Joback Method
hvap	60.17	kJ/mol	Joback Method
log10ws	-4.07		Crippen Method
logp	3.184		Crippen Method
mcvol	136.020	ml/mol	McGowan Method
pc	4409.10	kPa	Joback Method
tb	622.51	K	Joback Method
tc	886.48	K	Joback Method
tf	429.68	K	Joback Method
vc	0.500	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	293.69	J/mol×K	622.51	Joback Method
cpg	304.76	J/mol×K	666.51	Joback Method
cpg	314.86	J/mol×K	710.50	Joback Method
cpg	324.11	J/mol×K	754.50	Joback Method
cpg	332.60	J/mol×K	798.49	Joback Method
cpg	340.45	J/mol×K	842.49	Joback Method
cpg	347.76	J/mol×K	886.48	Joback Method

Sources

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=C62456342&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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