1,1'-Azonaphthalene

Other names:	Diazene, di-1-naphthalenyl- azonaphthalene
Inchi:	InChI=1S/C20H14N2/c1-3-11-17-15(7-1)9-5-13-19(17)21-22-20-14-6-10-16-8-2-4-12-18(
InchiKey:	ICIDZHMCYAIUIJ-UHFFFAOYSA-N
Formula:	C20H16N2
SMILES:	c1ccc2c(N=Nc3cccc4ccccc34)cccc2c1
Mol. weight [g/mol]:	284.35
CAS:	487-10-5

Physical Properties

Property code	Value	Unit	Source
hf	423.35	kJ/mol	Joback Method
hvap	75.94	kJ/mol	Joback Method
log10ws	-7.12		Crippen Method
logp	6.408		Crippen Method
mcvol	221.880	ml/mol	McGowan Method
pc	1927.05	kPa	Joback Method
tb	907.48	K	Joback Method
tc	1188.59	K	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=C487105&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hf:	Enthalpy of formation 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