Acridine, 9,10-dihydro-9,9-dimethyl-

Other names: Acridan, 9,9-dimethyl-
9,9-Dimethyl-9,10-dihydroacridine
9,9-Dimethylacridan
9,10-Dihydro-9,9-dimethylacridine
Inchi: InChI=1S/C15H15N/c1-15(2)11-7-3-5-9-13(11)16-14-10-6-4-8-12(14)15/h3-10,16H,1-2H
InchiKey: JSEQNGYLWKBMJI-UHFFFAOYSA-N
Formula: C15H15N
SMILES: CC1(C)c2ccccc2Nc2ccccc21
Mol. weight [g/mol]: 209.29
CAS: 6267-02-3

Physical Properties

Property code	Value	Unit	Source
gf	436.05	kJ/mol	Joback Method
hf	229.20	kJ/mol	Joback Method
hfus	25.44	kJ/mol	Joback Method
hvap	60.21	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	4.069		Crippen Method
mcvol	173.810	ml/mol	McGowan Method
pc	2918.68	kPa	Joback Method
rinpol	1906.00		NIST Webbook
tb	657.18	K	Joback Method
tc	915.26	K	Joback Method
tf	487.08	K	Joback Method
vc	0.659	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	447.01	J/mol×K	657.18	Joback Method
cpg	463.72	J/mol×K	700.19	Joback Method
cpg	479.41	J/mol×K	743.21	Joback Method
cpg	494.33	J/mol×K	786.22	Joback Method

cpg	508.77	J/mol×K	829.24	Joback Method
cpg	523.00	J/mol×K	872.25	Joback Method
cpg	537.27	J/mol×K	915.26	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=C6267023&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume