Quinoline, 1,2,3,4-tetrahydro-4-methyl-

Other names: 1,2,3,4-tetrahydro-4-methylquinoline
Inchi: InChI=1S/C10H13N/c1-8-6-7-11-10-5-3-2-4-9(8)10/h2-5,8,11H,6-7H2,1H3
InchiKey: OXNZWCYNCDWCJA-UHFFFAOYSA-N
Formula: C10H13N
SMILES: CC1CCNc2ccccc21
Mol. weight [g/mol]: 147.22
CAS: 19343-78-3

Physical Properties

Property code	Value	Unit	Source
gf	272.46	kJ/mol	Joback Method
hf	79.78	kJ/mol	Joback Method
hfus	20.93	kJ/mol	Joback Method
hvap	47.64	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	2.606		Crippen Method
mcvol	127.120	ml/mol	McGowan Method
pc	3534.66	kPa	Joback Method
rinpol	1405.70		NIST Webbook
rinpol	1405.70		NIST Webbook
tb	519.42	K	Joback Method
tc	757.27	K	Joback Method
tf	360.85	K	Joback Method
vc	0.473	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	284.82	J/mol×K	519.42	Joback Method
cpg	301.68	J/mol×K	559.06	Joback Method
cpg	317.42	J/mol×K	598.70	Joback Method
cpg	332.11	J/mol×K	638.35	Joback Method
cpg	345.79	J/mol×K	677.99	Joback Method
cpg	358.52	J/mol×K	717.63	Joback Method

cpg	370.35	J/mol×K	757.27	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19343783&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