N,N,2,6-Tetramethyl-4-cyanoaniline

Inchi: InChI=1S/C11H14N2/c1-8-5-10(7-12)6-9(2)11(8)13(3)4/h5-6H,1-4H3
InchiKey: GQYWEARFXOQOMB-UHFFFAOYSA-N
Formula: C11H14N2
SMILES: Cc1cc(C#N)cc(C)c1N(C)C
Mol. weight [g/mol]: 174.24
CAS: 13012-16-3

Physical Properties

Property code	Value	Unit	Source
affp	913.30	kJ/mol	NIST Webbook
basg	886.80	kJ/mol	NIST Webbook
gf	369.22	kJ/mol	Joback Method
hf	164.16	kJ/mol	Joback Method
hfus	21.65	kJ/mol	Joback Method
hvap	56.86	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	2.241		Crippen Method
mcvol	153.450	ml/mol	McGowan Method
pc	2462.92	kPa	Joback Method
tb	607.22	K	Joback Method
tc	826.14	K	Joback Method
tf	375.17	K	Joback Method
vc	0.588	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	367.88	J/mol×K	607.22	Joback Method
cpg	381.06	J/mol×K	643.71	Joback Method
cpg	393.47	J/mol×K	680.19	Joback Method
cpg	405.13	J/mol×K	716.68	Joback Method
cpg	416.08	J/mol×K	753.17	Joback Method
cpg	426.34	J/mol×K	789.65	Joback Method
cpg	435.95	J/mol×K	826.14	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13012163&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

Legend

affp:	Proton affinity
basg:	Gas basicity
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