N,N,2,6-Tetramethylaniline,4-fluoro

Inchi: InChI=1S/C10H14FN/c1-7-5-9(11)6-8(2)10(7)12(3)4/h5-6H,1-4H3
InchiKey: JRZLRKWQJXPFTG-UHFFFAOYSA-N
Formula: C10H14FN
SMILES: Cc1cc(F)cc(C)c1N(C)C
Mol. weight [g/mol]: 167.22
CAS: 14994-35-5

Physical Properties

Property code	Value	Unit	Source
affp	943.20	kJ/mol	NIST Webbook
basg	910.70	kJ/mol	NIST Webbook
gf	32.81	kJ/mol	Joback Method
hf	-176.19	kJ/mol	Joback Method
hfus	20.63	kJ/mol	Joback Method
hvap	43.34	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	2.509		Crippen Method
mcvol	139.750	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
tb	481.53	K	Joback Method
tc	676.78	K	Joback Method
tf	299.50	K	Joback Method
vc	0.523	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	299.12	J/mol×K	481.53	Joback Method
cpg	313.13	J/mol×K	514.07	Joback Method
cpg	326.46	J/mol×K	546.61	Joback Method
cpg	339.13	J/mol×K	579.15	Joback Method
cpg	351.15	J/mol×K	611.69	Joback Method
cpg	362.56	J/mol×K	644.23	Joback Method
cpg	373.36	J/mol×K	676.78	Joback Method

Sources

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=C14994355&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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