TETRAFLUOROPHTHALONITRILE

Other names: 1,2-Benzenedicarbonitrile, 3,4,5,6-tetrafluoro-
3,4,5,6-tetrafluorobenzene-1,2-dicarbonitrile
Inchi: InChI=1S/C8F4N2/c9-5-3(1-13)4(2-14)6(10)8(12)7(5)11
InchiKey: OFLRJMBSWDXSPG-UHFFFAOYSA-N
Formula: C8F4N2
SMILES: N#Cc1c(F)c(F)c(F)c(F)c1C#N
Mol. weight [g/mol]: 200.09

Physical Properties

Property code	Value	Unit	Source
hfus	23.90	kJ/mol	Joback Method
ie	10.60	eV	NIST Webbook
logp	1.986		Crippen Method
mcvol	109.660	ml/mol	McGowan Method
tb	483.34	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	238.69	J/mol×K	635.26	Joback Method
cpg	244.00	J/mol×K	670.04	Joback Method
cpg	249.01	J/mol×K	704.81	Joback Method
cpg	253.73	J/mol×K	739.59	Joback Method
cpg	258.16	J/mol×K	774.37	Joback Method
cpg	262.28	J/mol×K	809.15	Joback Method
cpg	266.11	J/mol×K	843.92	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1835650&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature