Tetrakis(difluoroamino)methane

Other names: Tetrakis(difluoroamino)methane
Inchi: InChI=1S/CF8N4/c2-10(3)1(11(4)5,12(6)7)13(8)9
InchiKey: PIFUGZAQQQLFAA-UHFFFAOYSA-N
Formula: CF8N4
SMILES: FN(F)C(N(F)F)(N(F)F)N(F)F
Mol. weight [g/mol]: 220.02

Physical Properties

Property code	Value	Unit	Source
hf	1.50 ± 5.60	kJ/mol	NIST Webbook
hfus	27.66	kJ/mol	Joback Method
hvap	40.51	kJ/mol	Cheméo Relay (1.0)
logp	1.882		Crippen Method
mcvol	79.030	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	148.32	J/mol×K	262.97	Joback Method
cpg	156.15	J/mol×K	280.46	Joback Method
cpg	163.64	J/mol×K	297.95	Joback Method
cpg	170.80	J/mol×K	315.43	Joback Method
cpg	177.62	J/mol×K	332.92	Joback Method
cpg	184.14	J/mol×K	350.41	Joback Method
cpg	190.34	J/mol×K	367.90	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C17125654&Units=SI
Joback Method: https://en.wikipedia.org/wiki/Joback_method
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):	

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume