

C2HF6N

Inchi:	InChI=1S/C2HF6N/c3-1(4,5)9-2(6,7)8/h9H
InchiKey:	ZGLLUEAYLAHJKB-UHFFFAOYSA-N
Formula:	C2HF6N
SMILES:	FC(F)(F)NC(F)(F)F
Mol. weight [g/mol]:	153.03
CAS:	371-77-7

Physical Properties

Property code	Value	Unit	Source
gf	-1107.83	kJ/mol	Joback Method
hf	-1225.30	kJ/mol	Joback Method
hfus	9.69	kJ/mol	Joback Method
hvap	18.99	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	1.616		Crippen Method
mcvol	59.640	ml/mol	McGowan Method
pc	3768.41	kPa	Joback Method
tb	284.49	K	Joback Method
tc	419.80	K	Joback Method
tf	173.34	K	Joback Method
vc	0.269	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	114.02	J/mol×K	284.49	Joback Method
cpg	120.89	J/mol×K	307.04	Joback Method
cpg	127.36	J/mol×K	329.59	Joback Method
cpg	133.45	J/mol×K	352.15	Joback Method
cpg	139.17	J/mol×K	374.70	Joback Method
cpg	144.53	J/mol×K	397.25	Joback Method
cpg	149.54	J/mol×K	419.80	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=C371777&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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