Dimethylfluoroamine

Other names: Fluorodimethylamine
Inchi: InChI=1S/C2H6FN/c1-4(2)3/h1-2H3
InchiKey: PIIHPBHYDCOPKZ-UHFFFAOYSA-N
Formula: C2H6FN
SMILES: CN(C)F
Mol. weight [g/mol]: 63.07
CAS: 14722-43-1

Physical Properties

Property code	Value	Unit	Source
gf	-118.07	kJ/mol	Joback Method
hf	-213.19	kJ/mol	Joback Method
hfus	7.04	kJ/mol	Joback Method
hvap	21.27	kJ/mol	Joback Method
log10ws	-0.07		Crippen Method
logp	0.432		Crippen Method
mcvol	50.790	ml/mol	McGowan Method
pc	4710.65	kPa	Joback Method
tb	256.87	K	Joback Method
tc	404.47	K	Joback Method
tf	145.36	K	Joback Method
vc	0.183	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	93.82	J/mol×K	379.87	Joback Method
cpg	67.94	J/mol×K	256.87	Joback Method
cpg	73.51	J/mol×K	281.47	Joback Method
cpg	78.88	J/mol×K	306.07	Joback Method
cpg	84.05	J/mol×K	330.67	Joback Method
cpg	89.03	J/mol×K	355.27	Joback Method
cpg	98.43	J/mol×K	404.47	Joback Method
hvapt	29.90	kJ/mol	261.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14722431&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
hvapt:	Enthalpy of vaporization at a given temperature
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