Acetamide, 2,2,2-trifluoro-N-methyl-

Other names:	N-Methyltrifluoroacetamide
	2,2,2-Trifluoro-N-methylacetamide
	N-Methyl-2,2,2-trifluoroacetamide
Inchi:	InChI=1S/C3H4F3NO/c1-7-2(8)3(4,5)6/h1H3,(H,7,8)
InchiKey:	IQNHBUQSOSYAJU-UHFFFAOYSA-N
Formula:	C3H4F3NO
SMILES:	CNC(=O)C(F)(F)F
Mol. weight [g/mol]:	127.07
CAS:	815-06-5

Physical Properties

Property code	Value	Unit	Source
gf	-646.74	kJ/mol	Joback Method
hf	-761.44	kJ/mol	Joback Method
hfus	12.05	kJ/mol	Joback Method
hvap	31.71	kJ/mol	Joback Method
log10ws	-0.71		Crippen Method
logp	0.295		Crippen Method
mcvol	69.990	ml/mol	McGowan Method
pc	4183.90	kPa	Joback Method
tb	429.70	K	NIST Webbook
tc	534.06	K	Joback Method
tf	230.35	K	Joback Method
vc	0.287	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	135.97	J/mol×K	366.66	Joback Method
cpg	142.97	J/mol×K	394.56	Joback Method
cpg	149.57	J/mol×K	422.46	Joback Method
cpg	155.80	J/mol×K	450.36	Joback Method
cpg	161.66	J/mol×K	478.26	Joback Method
cpg	167.16	J/mol×K	506.16	Joback Method

cpg	172.33	J/mol×K	534.06	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C815065&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
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