1-Aminononadecane, N-trifluoroacetyl-

Other names: 1-Aminononadecane, TFA
Inchi: InChI=1S/C21H40F3NO/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-25-20(26)21
InchiKey: REUSMYBZXLOVLR-UHFFFAOYSA-N
Formula: C21H40F3NO
SMILES: CCCCCCCCCCCCCCCCCCCCNC(=O)C(F)(F)F
Mol. weight [g/mol]: 379.54

Physical Properties

Property code	Value	Unit	Source
gf	-495.18	kJ/mol	Joback Method
hf	-1132.96	kJ/mol	Joback Method
hfus	58.67	kJ/mol	Joback Method
hvap	71.78	kJ/mol	Joback Method
log10ws	-8.24		Crippen Method
logp	7.317		Crippen Method
mcvol	323.610	ml/mol	McGowan Method
pc	932.92	kPa	Joback Method
rinpol	2331.00		NIST Webbook
tb	778.50	K	Joback Method
tc	953.60	K	Joback Method
tf	433.21	K	Joback Method
vc	1.296	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1028.01	J/mol×K	778.50	Joback Method
cpg	1047.17	J/mol×K	807.68	Joback Method
cpg	1065.35	J/mol×K	836.87	Joback Method
cpg	1082.61	J/mol×K	866.05	Joback Method
cpg	1099.00	J/mol×K	895.24	Joback Method
cpg	1114.55	J/mol×K	924.42	Joback Method
cpg	1129.32	J/mol×K	953.60	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360370&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume