

# 1-Aminoicosane, N-trifluoroacetyl-

<b>Other names:</b>	1-Aminoicosane, TFA
<b>Inchi:</b>	InChI=1S/C22H42F3NO/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-26-21(27
<b>InchiKey:</b>	MOXAXUSNVSZOAE-UHFFFAOYSA-N
<b>Formula:</b>	C22H42F3NO
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCNC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	393.57

## Physical Properties

Property code	Value	Unit	Source
gf	-486.76	kJ/mol	Joback Method
hf	-1153.60	kJ/mol	Joback Method
hfus	61.26	kJ/mol	Joback Method
hvap	74.00	kJ/mol	Joback Method
log10ws	-8.66		Crippen Method
logp	7.707		Crippen Method
mvol	337.700	ml/mol	McGowan Method
pc	880.52	kPa	Joback Method
rinpol	2424.00		NIST Webbook
rinpol	2424.00		NIST Webbook
tb	801.38	K	Joback Method
tc	981.12	K	Joback Method
tf	444.48	K	Joback Method
vc	1.351	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1089.52	J/mol×K	801.38	Joback Method
cpg	1109.29	J/mol×K	831.34	Joback Method
cpg	1128.02	J/mol×K	861.29	Joback Method
cpg	1145.78	J/mol×K	891.25	Joback Method
cpg	1162.62	J/mol×K	921.21	Joback Method
cpg	1178.59	J/mol×K	951.16	Joback Method
cpg	1193.75	J/mol×K	981.12	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360371&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360371&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/120-345-5/1-Aminoicosane-N-trifluoroacetyl.pdf>

Generated by Cheméo on 2024-05-01 01:02:40.400525799 +0000 UTC m=+16814609.321103114.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.