

# N-(3,5-Dimethyl-1-adamantyl)trifluoroacetamide

Other names:	3,5-Dimethyladamantan-1-yl-trifluoroacetamine 3,5-Dimethyltricyclo[3.3.1.1 <sup>3,7</sup> ]decan-1-trifluoroacetamine
Inchi:	InChI=1S/C14H20F3NO/c1-11-3-9-4-12(2,6-11)8-13(5-9,7-11)18-10(19)14(15,16)17/h9H
InchiKey:	PRMUEKWAUBTBRV-UHFFFAOYSA-N
Formula:	C14H20F3NO
SMILES:	CC12CC3CC(C)(C1)CC(NC(=O)C(F)(F)F)(C3)C2
Mol. weight [g/mol]:	275.31

## Physical Properties

Property code	Value	Unit	Source
gf	-408.15	kJ/mol	Joback Method
hf	-750.86	kJ/mol	Joback Method
hfus	15.02	kJ/mol	Joback Method
hvap	52.34	kJ/mol	Joback Method
log10ws	-4.38		Crippen Method
logp	3.414		Crippen Method
mcvol	192.400	ml/mol	McGowan Method
pc	2300.32	kPa	Joback Method
rinpol	1484.00		NIST Webbook
tb	638.88	K	Joback Method
tc	853.93	K	Joback Method
tf	472.08	K	Joback Method
vc	0.759	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	577.69	J/molxK	638.88	Joback Method
cpg	595.23	J/molxK	674.72	Joback Method
cpg	611.86	J/molxK	710.56	Joback Method
cpg	627.97	J/molxK	746.41	Joback Method
cpg	643.93	J/molxK	782.25	Joback Method
cpg	660.13	J/molxK	818.09	Joback Method
cpg	676.95	J/molxK	853.93	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=U373419&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373419&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>rlnpol:</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

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