

# 2-Adamantylamine, N-heptafluorobutyryl-

<b>Inchi:</b>	InChI=1S/C14H16F7NO/c15-12(16,13(17,18)14(19,20)21)11(23)22-10-8-2-6-1-7(4-8)5-9
<b>InchiKey:</b>	SMVNJSTXQNLGSD-UHFFFAOYSA-N
<b>Formula:</b>	C14H16F7NO
<b>SMILES:</b>	O=C(NC1C2CC3CC(C2)CC1C3)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	347.27

## Physical Properties

Property code	Value	Unit	Source
gf	-1172.95	kJ/mol	Joback Method
hf	-1618.86	kJ/mol	Joback Method
hfus	32.48	kJ/mol	Joback Method
hvap	49.63	kJ/mol	Joback Method
log10ws	-4.77		Crippen Method
logp	3.760		Crippen Method
mcvol	199.480	ml/mol	McGowan Method
pc	1743.37	kPa	Joback Method
rinpol	1525.00		NIST Webbook
rinpol	1525.00		NIST Webbook
tb	624.11	K	Joback Method
tc	806.04	K	Joback Method
tf	403.34	K	Joback Method
vc	0.815	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	625.59	J/mol×K	624.11	Joback Method
cpg	642.74	J/mol×K	654.43	Joback Method
cpg	658.65	J/mol×K	684.75	Joback Method
cpg	673.41	J/mol×K	715.08	Joback Method
cpg	687.14	J/mol×K	745.40	Joback Method
cpg	699.93	J/mol×K	775.72	Joback Method
cpg	711.89	J/mol×K	806.04	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=U374859&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374859&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rlnol:</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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