

# 2-fluoroadamantane

**Inchi:** InChI=1S/C10H15F/c11-10-8-2-6-1-7(4-8)5-9(10)3-6/h6-10H,1-5H2  
**InchiKey:** SVIIPBADUQGZCF-UHFFFAOYSA-N  
**Formula:** C10H15F  
**SMILES:** FC1C2CC3CC(C2)CC1C3  
**Mol. weight [g/mol]:** 154.22  
**CAS:** 16668-83-0

## Physical Properties

Property code	Value	Unit	Source
gf	-6.76	kJ/mol	Joback Method
hf	-274.28	kJ/mol	Joback Method
hfus	19.18	kJ/mol	Joback Method
hvap	36.33	kJ/mol	Joback Method
ie	9.46	eV	NIST Webbook
log10ws	-2.69		Crippen Method
logp	2.781		Crippen Method
mcvol	120.950	ml/mol	McGowan Method
pc	2847.48	kPa	Joback Method
rinpol	1210.00		NIST Webbook
rinpol	1223.00		NIST Webbook
rinpol	1197.00		NIST Webbook
rinpol	1182.00		NIST Webbook
rinpol	1182.00		NIST Webbook
rinpol	1182.00		NIST Webbook
ripol	1521.00		NIST Webbook
ripol	1566.00		NIST Webbook
ripol	1544.00		NIST Webbook
ripol	1521.00		NIST Webbook
tb	442.62	K	Joback Method
tc	644.36	K	Joback Method
tf	244.87	K	Joback Method
vc	0.474	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	280.41	J/mol×K	442.62	Joback Method
cpg	300.79	J/mol×K	476.24	Joback Method
cpg	319.86	J/mol×K	509.87	Joback Method
cpg	337.71	J/mol×K	543.49	Joback Method
cpg	354.40	J/mol×K	577.11	Joback Method
cpg	370.01	J/mol×K	610.73	Joback Method
cpg	384.62	J/mol×K	644.36	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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=C16668830&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16668830&amp;Units=SI</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>ie:</b>	Ionization energy
<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>ripola:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/76-415-7/2-fluoroadamantane.pdf>

Generated by Cheméo on 2024-04-30 12:49:34.065303096 +0000 UTC m=+16770622.985880411.

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