

# 5-methyl-adamantane

**InChI:** InChI=1S/C11H18/c1-11-5-8-2-9(6-11)4-10(3-8)7-11/h8-10H,2-7H  
2,1H3/t8-,9+,10-,11+

**InChI Key:** UZUCFTVAWGRMTQ-DTIDVZRVSA-N

**Formula:** C<sub>11</sub>H<sub>18</sub>

**SMILES:** CC12CC3CC(CC(C3)C1)C2

**Molecular Weight:** 150.26



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	198.69	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-63.23	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	11.32	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	38.53	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	3.22		Crippen Method
$P_c$	2931.34	kPa	Joback Method
$T_{\text{boil}}$	471.14	K	Joback Method
$T_c$	691.15	K	Joback Method
$T_{\text{fus}}$	283.69	K	Joback Method
$V_c$	0.51	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	319.89	J/mol×K	471.14	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**NIST Webbook:** [http://webbook.nist.gov/cgi/inchi/InChI=1S/C11H18/c1-11-5-8-2-9\(6-11\)4-10\(3-8\)7-11/h8-10H,2-7H2,1H3/t8-,9+,10-,11+](http://webbook.nist.gov/cgi/inchi/InChI=1S/C11H18/c1-11-5-8-2-9(6-11)4-10(3-8)7-11/h8-10H,2-7H2,1H3/t8-,9+,10-,11+)

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

$C_{p, gas}$ : Ideal gas heat capacity (J/mol×K).

$\Delta_f G^\circ$ : Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$ : Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$ : Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$ : Enthalpy of vaporization at standard conditions (kJ/mol).

$\log P_{oct/wat}$ : Octanol/Water partition coefficient .

$P_c$ : Critical Pressure (kPa).

$T_{boil}$ : Normal Boiling Point Temperature (K).

$T_c$ : Critical Temperature (K).

$T_{fus}$ : Normal melting (fusion) point (K).

$V_c$ : Critical Volume (m<sup>3</sup>/kg-mol).

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