

# 2,2-Dimethylindene, 2,3-dihydro-

**Other names:** 1H-Indene,2,3-dihydro-2,2-dimethyl-

**InChI:**

InChI=1S/C11H14/c1-11(2)7-9-5-3-4-6-10(9)8-11/h3-6H,7-8H2,1-2H3

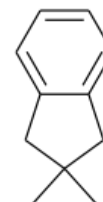
**InChI Key:** VAMWEVQXIHGFHY-UHFFFAOYSA-N

**Formula:** C11H14

**SMILES:** CC1(C)Cc2ccccc2C1

**Molecular Weight:** 146.23

**CAS:** 20836-11-7



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	199.78	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	42.73	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	9.73	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	41.78	kJ/mol	Joback Method
IE	8.47	eV	NIST Webbook
$\log P_{\text{oct/wat}}$	2.81		Crippen Method
$P_c$	3145.56	kPa	Joback Method
$T_{\text{boil}}$	489.72	K	Joback Method
$T_c$	719.26	K	Joback Method
$T_{\text{fus}}$	294.51	K	Joback Method
$V_c$	0.50	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	286.80	J/molxK	489.72	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/C11H14/c1-11\(2\)7-9-5-3-4-6-10\(9\)8-11/h3-6H,7-8H2,1-2H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C11H14/c1-11(2)7-9-5-3-4-6-10(9)8-11/h3-6H,7-8H2,1-2H3)

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

## 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).

**IE:** Ionization energy (eV).

**logP<sub>oct/wat</sub>**: Octanol/Water partition coefficient .

**P<sub>c</sub>**: Critical Pressure (kPa).

**T<sub>boil</sub>**: Normal Boiling Point Temperature (K).

**T<sub>c</sub>**: Critical Temperature (K).

**T<sub>fus</sub>**: Normal melting (fusion) point (K).

**V<sub>c</sub>**: Critical Volume (m<sup>3</sup>/kg-mol).

Latest version available from:

<https://www.cheméo.com/cid/35-390-0/2%2C2-Dimethylindene%2C%202%2C3-dihydro->

Generated by Cheméo on Mon, 19 Feb 2018 15:48:12 +0000.

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