

# p-mentha-1(7),8-dien-2-yl acetate

**Other names:** menthadien-2-yl acetate, p-1(7),8.

**InChI:** InChI=1S/C12H18O2/c1-8(2)11-6-5-9(3)12(7-11)14-10(4)13/h11-12H,1,3,5-7H2,2,4H3

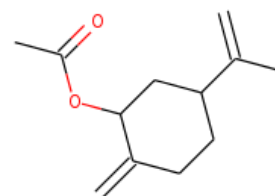
**InChI Key:** CCLNPVCMIJDLR-UHFFFAOYSA-N

**Formula:** C12H18O2

**SMILES:** C=C(C)C1CCC(=C)C(OC(C)=O)C1

**Molecular Weight:** 194.27

**CAS:** 1134-96-9



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-34.65	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-301.95	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	18.78	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	51.15	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	2.851		Crippen Method
$P_c$	2298.11	kPa	Joback Method
$T_{\text{boil}}$	560.85	K	Joback Method
$T_c$	769.45	K	Joback Method
$T_{\text{fus}}$	298.26	K	Joback Method
$V_c$	0.629	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	414.55	J/mol×K	560.85	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/C12H18O2/c1-8\(2\)11-6-5-9\(3\)12\(7-11\)14-10\(4\)13/h11-12H,1,3,5-7H2,2,4H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C12H18O2/c1-8(2)11-6-5-9(3)12(7-11)14-10(4)13/h11-12H,1,3,5-7H2,2,4H3)

**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).

$logP_{oct/wat}$ : 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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