

## 2-hydroxy-(E)-4-decen-3-one

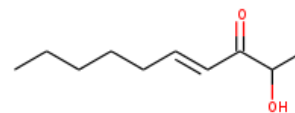
**InChI:** InChI=1S/C10H18O2/c1-3-4-5-6-7-8-10(12)9(2)11/h7-9,11H,3-6H2,1-2H3/b8-7+

**InChI Key:** QGMOZIDHLFOEDQ-BQYQJAHWSA-N

**Formula:** C10H18O2

**SMILES:** CCCCCC=CC(=O)C(C)O

**Molecular Weight:** 170.25



### Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-154.64	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-402.60	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	24.02	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	60.85	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	2.073		Crippen Method
$P_c$	2595.13	kPa	Joback Method
$T_{\text{boil}}$	577.97	K	Joback Method
$T_c$	754.09	K	Joback Method
$T_{\text{fus}}$	293.13	K	Joback Method
$V_c$	0.595	m <sup>3</sup> /kg-mol	Joback Method

### Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	383.58	J/mol×K	577.97	Joback Method
$\eta$	0.0000818	Paxs	577.97	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/C10H18O2/c1-3-4-5-6-7-8-10\(12\)9\(2\)11/h7-9,11H,3-6H2,1-2H3/b8-7+](http://webbook.nist.gov/cgi/inchi/InChI=1S/C10H18O2/c1-3-4-5-6-7-8-10(12)9(2)11/h7-9,11H,3-6H2,1-2H3/b8-7+)

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

## Legend

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

$\eta$ : Dynamic viscosity (Pa $\times$ s).

$\Delta_f G^\circ$ : 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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