

# 6-dodecenal, E

**Other names:** (E)-6-Dodecenal.

**InChI:** InChI=1S/C12H22O/c1-2-3-4-5-6-7-8-9-10-11-12-13/h6-7,12H,2-5,8-11H2,1H3/b7-6+

**InChI Key:** RKSXBPZEKYUCII-VOTSOKGWSA-N

**Formula:** C12H22O

**SMILES:** CCCCCC=CCCCC=O

**Molecular Weight:** 182.30



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	30.86	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-259.37	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	29.33	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	48.98	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	3.88		Crippen Method
$P_c$	1985.89	kPa	Joback Method
$T_{\text{boil}}$	526.78	K	Joback Method
$T_c$	700.00	K	Joback Method
$T_{\text{fus}}$	261.92	K	Joback Method
$V_c$	0.70	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	418.84	J/mol×K	526.78	Joback Method
$\eta$	0.00	Paxs	526.78	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/C12H22O/c1-2-3-4-5-6-7-8-9-10-11-12-13/h6-7,12H,2-5,8-11H2,1H3/b7-6+>

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

## Legend

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

$\eta$ : Dynamic viscosity (Paxs).

$\Delta_f G^\circ$ : 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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