

# 11-Tetradecen-1-ol, (E)-

**Other names:** (11E)-11-Tetradecen-1-ol; (E)-11-Tetradecen-1-ol; (E)-tetradec-11-enol; 11-Tetradecenol, E; E-11-Tetradecenol.

**InChI:** InChI=1S/C14H28O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15/h3-4,15 H,2,5-14H2,1H3/b4-3+

**InChI Key:** YGHAIPJLMYTNAI-ONEGZZNKSA-N

**Formula:** C14H28O

**SMILES:** CCC=CCCCCCCCCO

**Molecular Weight:** 212.37

**CAS:** 35153-18-5



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	10.40	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-367.30	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	36.31	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	101.80	kJ/mol	NIST Webbook
$\log P_{\text{oct/wat}}$	4.46		Crippen Method
$P_c$	1710.36	kPa	Joback Method
$T_{\text{boil}}$	616.06	K	Joback Method
$T_c$	778.82	K	Joback Method
$T_{\text{fus}}$	303.28	K	Joback Method
$V_c$	0.82	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	562.60	J/mol×K	616.06	Joback Method
$\eta$	0.00	Paxs	616.06	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/C14H28O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15/h3-4,15H,2,5-14H2,1H3/b4-3+>

**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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