

(Z)10-Dodecen-1-ol

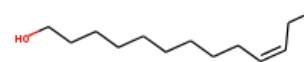
InChI: InChI=1S/C13H26O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14/h3-4,14H,2,5-13H2,1H3/b4-3-

InChI Key: MSSXLNVNZXUONF-ARJAWSKDSA-N

Formula: C13H26O

SMILES: CCC=CCCCCCCCCO

Molecular Weight: 198.34



Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	1.98	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-346.66	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	33.72	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	61.17	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	4.066		Crippen Method
P_c	1854.71	kPa	Joback Method
T_{boil}	593.18	K	Joback Method
T_c	756.04	K	Joback Method
T_{fus}	292.01	K	Joback Method
V_c	0.762	m ³ /kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	510.30	J/mol×K	593.18	Joback Method
η	0.0000603	Paxs	593.18	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

NIST Webbook: <http://webbook.nist.gov/cgi/inchi/InChI=1S/C13H26O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14/h3-4,14H,2,5-13H2,1H3/b4-3->

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

Legend

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

η : 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 (m³/kg-mol).

Latest version available from:

<https://www.chemeo.com/cid/74-796-7/%28Z%2910-Dodecen-1-ol>

Generated by Cheméo on Sat, 16 Feb 2019 01:03:52 +0000.

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