

(Z)-11-Tridecen-2-yl acetate

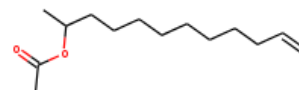
InChI: InChI=1S/C15H28O2/c1-4-5-6-7-8-9-10-11-12-13-14(2)17-15(3)16/h4-5,14H,6-13H2,1-3H3/b5-4-

InChI Key: HADYGUBVEOGYGM-PLNGDYQASA-N

Formula: C15H28O2

SMILES: CC=CCCCCCCCC(C)OC(C)=O

Molecular Weight: 240.38



Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-80.72	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-485.79	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	34.07	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	57.71	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	4.635		Crippen Method
P_c	1535.46	kPa	Joback Method
T_{boil}	622.61	K	Joback Method
T_c	798.28	K	Joback Method
T_{fus}	310.89	K	Joback Method
V_c	0.874	m ³ /kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	600.96	J/mol×K	622.61	Joback Method
η	0.0001093	Paxs	622.61	Joback Method

Sources

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

NIST Webbook: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C15H28O2/c1-4-5-6-7-8-9-10-11-12-13-14\(2\)17-15\(3\)16/h4-5,14H,6-13H2,1-3H3/b5-4-](http://webbook.nist.gov/cgi/inchi/InChI=1S/C15H28O2/c1-4-5-6-7-8-9-10-11-12-13-14(2)17-15(3)16/h4-5,14H,6-13H2,1-3H3/b5-4-)

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

Legend

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

η : Dynamic viscosity (Pa×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).

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