

# (S)-9-methyldecan-3-ol

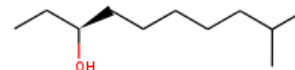
**InChI:** InChI=1S/C11H24O/c1-4-11(12)9-7-5-6-8-10(2)3/h10-12H,4-9H2,1-3H3/t11-/m1/s1

**InChI Key:** GVNZAPCZQSDLGP-LLVKDONJSA-N

**Formula:** C<sub>11</sub>H<sub>24</sub>O

**SMILES:** CCC(O)CCCCC(C)C

**Molecular Weight:** 172.31



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-99.96	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-433.16	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	21.29	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	55.98	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	3.364		Crippen Method
$P_c$	2131.49	kPa	Joback Method
$T_{\text{boil}}$	542.38	K	Joback Method
$T_c$	705.81	K	Joback Method
$T_{\text{fus}}$	244.55	K	Joback Method
$V_c$	0.658	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	429.18	J/mol×K	542.38	Joback Method
$\eta$	0.0000918	Paxs	542.38	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/C11H24O/c1-4-11\(12\)9-7-5-6-8-10\(2\)3/h10-12H,4-9H2,1-3H3/t11-m/s1](http://webbook.nist.gov/cgi/inchi/InChI=1S/C11H24O/c1-4-11(12)9-7-5-6-8-10(2)3/h10-12H,4-9H2,1-3H3/t11-m/s1)

**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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