

# 7-Dodecenol

<b>Other names:</b>	(E) 7-dodecen-1-ol 7-Dodecen-1-ol
<b>Inchi:</b>	InChI=1S/C12H24O/c1-2-3-4-5-6-7-8-9-10-11-12-13/h5-6,13H,2-4,7-12H2,1H3
<b>InchiKey:</b>	WWDOVTHLTQFGOZ-UHFFFAOYSA-N
<b>Formula:</b>	C12H24O
<b>SMILES:</b>	CCCCC=CCCCCO
<b>Mol. weight [g/mol]:</b>	184.32
<b>CAS:</b>	16695-40-2

## Physical Properties

Property code	Value	Unit	Source
gf	-6.44	kJ/mol	Joback Method
hf	-326.02	kJ/mol	Joback Method
hfus	31.13	kJ/mol	Joback Method
hvap	90.80	kJ/mol	NIST Webbook
log10ws	-3.96		Crippen Method
logp	3.676		Crippen Method
mvol	181.510	ml/mol	McGowan Method
pc	2018.13	kPa	Joback Method
rinpol	1420.00		NIST Webbook
tb	570.30	K	Joback Method
tc	733.56	K	Joback Method
tf	280.74	K	Joback Method
vc	0.707	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	459.51	J/molxK	570.30	Joback Method
cpg	524.90	J/molxK	706.35	Joback Method
cpg	512.93	J/molxK	679.14	Joback Method
cpg	500.43	J/molxK	651.93	Joback Method
cpg	487.37	J/molxK	624.72	Joback Method
cpg	473.74	J/molxK	597.51	Joback Method

cpg	536.36	J/molxK	733.56	Joback Method
dvisc	0.0000721	Paxs	570.30	Joback Method
dvisc	0.0001199	Paxs	522.04	Joback Method
dvisc	0.0002211	Paxs	473.78	Joback Method
dvisc	0.0004685	Paxs	425.52	Joback Method
dvisc	0.0012026	Paxs	377.26	Joback Method
dvisc	0.0040712	Paxs	329.00	Joback Method
dvisc	0.0209597	Paxs	280.74	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.44974e+01
Coeff. B	-4.60063e+03
Coeff. C	-9.07560e+01
Temperature range (K), min.	414.52
Temperature range (K), max.	591.59

## Sources

**The Yaws Handbook of Vapor**

**Pressure:**

**Crippen Method:**

**Crippen Method:**

**Joback Method:**

**McGowan Method:**

**NIST Webbook:**

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

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

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

<http://link.springer.com/article/10.1007/BF02311772>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C16695402&Units=SI>

## Legend

**cpg:** Ideal gas heat capacity

**dvisc:** Dynamic viscosity

**gf:** Standard Gibbs free energy of formation

**hf:** Enthalpy of formation at standard conditions

<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>pvap:</b>	Vapor pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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