

# cis-2-Octen-1-ol

**Inchi:** InChI=1S/C8H16O/c1-2-3-4-5-6-7-8-9/h6-7,9H,2-5,8H2,1H3/b7-6-  
**InchiKey:** AYQPVPFZWIQERS-SREVYHEPSA-N  
**Formula:** C8H16O  
**SMILES:** CCCCCC=CCO  
**Mol. weight [g/mol]:** 128.21  
**CAS:** ---

## Physical Properties

Property code	Value	Unit	Source
gf	-40.12	kJ/mol	Joback Method
hf	-243.46	kJ/mol	Joback Method
hfus	20.77	kJ/mol	Joback Method
hvap	50.04	kJ/mol	Joback Method
log10ws	-2.29		Crippen Method
logp	2.115		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2947.28	kPa	Joback Method
ripol	1626.00		NIST Webbook
ripol	1626.00		NIST Webbook
ripol	1616.00		NIST Webbook
tb	478.78	K	Joback Method
tc	645.49	K	Joback Method
tf	235.66	K	Joback Method
vc	0.482	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.29	J/molxK	478.78	Joback Method
cpg	284.49	J/molxK	506.57	Joback Method
cpg	295.20	J/molxK	534.35	Joback Method
cpg	305.44	J/molxK	562.14	Joback Method
cpg	315.25	J/molxK	589.92	Joback Method
cpg	324.63	J/molxK	617.71	Joback Method

cpg	333.60	J/molxK	645.49	Joback Method
dvisc	0.0553869	Paxs	235.66	Joback Method
dvisc	0.0099375	Paxs	276.18	Joback Method
dvisc	0.0027674	Paxs	316.70	Joback Method
dvisc	0.0010300	Paxs	357.22	Joback Method
dvisc	0.0004689	Paxs	397.74	Joback Method
dvisc	0.0002469	Paxs	438.26	Joback Method
dvisc	0.0001449	Paxs	478.78	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.55989e+01
Coeff. B	-4.42976e+03
Coeff. C	-7.24080e+01
Temperature range (K), min.	361.72
Temperature range (K), max.	503.01

## Sources

The Yaws Handbook of Vapor

Pressure:

Crippen Method:

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

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

Crippen Method:

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

Joback Method:

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

McGowan Method:

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

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=R625135&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>ripol:</b>	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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