

# cis-7-Tetradecen-1-ol

**Other names:**

Z-7-Tetradecenol  
(7Z)-7-Tetradecen-1-ol  
7-Tetradecen-1-ol, (Z)  
7-Tetradecenol, Z  
(Z)-7-Tetradecen-1-ol  
cis-7-Tetradecenol

**Inchi:**

InChI=1S/C14H28O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15/h7-8,15H,2-6,9-14H2,1H3/b8

**InchiKey:**

QXYAJPQXTGQWRU-FPLPWBNLSA-N

**Formula:**

C14H28O

**SMILES:**

CCCCCCC=CCCCCCO

**Mol. weight [g/mol]:**

212.37

**CAS:**

40642-43-1

## Physical Properties

Property code	Value	Unit	Source
gf	10.40	kJ/mol	Joback Method
hf	-367.30	kJ/mol	Joback Method
hfus	36.31	kJ/mol	Joback Method
hvap	99.90	kJ/mol	NIST Webbook
log10ws	-4.80		Crippen Method
logp	4.456		Crippen Method
mcvol	209.690	ml/mol	McGowan Method
pc	1710.36	kPa	Joback Method
rinpol	1660.00		NIST Webbook
ripol	2206.00		NIST Webbook
tb	616.06	K	Joback Method
tc	778.82	K	Joback Method
tf	303.28	K	Joback Method
vc	0.819	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	562.60	J/molxK	616.06	Joback Method

cpg	633.37	J/molxK	751.70	Joback Method
cpg	620.41	J/molxK	724.57	Joback Method
cpg	606.89	J/molxK	697.44	Joback Method
cpg	592.76	J/molxK	670.31	Joback Method
cpg	578.00	J/molxK	643.19	Joback Method
cpg	645.78	J/molxK	778.82	Joback Method
dvisc	0.0000504	Paxs	616.06	Joback Method
dvisc	0.0000829	Paxs	563.93	Joback Method
dvisc	0.0001512	Paxs	511.80	Joback Method
dvisc	0.0003158	Paxs	459.67	Joback Method
dvisc	0.0007966	Paxs	407.54	Joback Method
dvisc	0.0026357	Paxs	355.41	Joback Method
dvisc	0.0131572	Paxs	303.28	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C40642431&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C40642431&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/40-485-9/cis-7-Tetradecen-1-ol.pdf>

Generated by Cheméo on 2024-04-17 03:05:22.151135213 +0000 UTC m=+15612371.071712528.

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