

# (E)-4-Decen-1-ol

**Inchi:** InChI=1S/C10H20O/c1-2-3-4-5-6-7-8-9-10-11/h6-7,11H,2-5,8-10H2,1H3/b7-6+  
**InchiKey:** VUNFOJWKJSYIDH-VOTSOKGWSA-N  
**Formula:** C10H20O  
**SMILES:** CCCCC=CCCCO  
**Mol. weight [g/mol]:** 156.27

## Physical Properties

Property code	Value	Unit	Source
gf	-23.28	kJ/mol	Joback Method
hf	-284.74	kJ/mol	Joback Method
hfus	25.95	kJ/mol	Joback Method
hvap	54.49	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	2.895		Crippen Method
mcvol	153.330	ml/mol	McGowan Method
pc	2417.12	kPa	Joback Method
ripol	1241.00		NIST Webbook
ripol	1791.00		NIST Webbook
ripol	1791.00		NIST Webbook
tb	524.54	K	Joback Method
tc	689.26	K	Joback Method
tf	258.20	K	Joback Method
vc	0.595	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.81	J/mol×K	524.54	Joback Method
cpg	375.67	J/mol×K	551.99	Joback Method
cpg	387.98	J/mol×K	579.45	Joback Method
cpg	399.77	J/mol×K	606.90	Joback Method
cpg	411.06	J/mol×K	634.36	Joback Method
cpg	421.86	J/mol×K	661.81	Joback Method
cpg	432.20	J/mol×K	689.26	Joback Method

dvisc	0.0338296	Paxs	258.20	Joback Method
dvisc	0.0063373	Paxs	302.59	Joback Method
dvisc	0.0018223	Paxs	346.98	Joback Method
dvisc	0.0006952	Paxs	391.37	Joback Method
dvisc	0.0003228	Paxs	435.76	Joback Method
dvisc	0.0001727	Paxs	480.15	Joback Method
dvisc	0.0001027	Paxs	524.54	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R77874&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R77874&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>
<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>

## 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>mvol:</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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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