

# 2-Octanol, 3,7-dimethyl-

<b>Other names:</b>	3,7-dimethyloctan-2-ol
<b>Inchi:</b>	InChI=1S/C10H22O/c1-8(2)6-5-7-9(3)10(4)11/h8-11H,5-7H2,1-4H3
<b>InchiKey:</b>	XCWMPEYBKUYTLZ-UHFFFAOYSA-N
<b>Formula:</b>	C10H22O
<b>SMILES:</b>	CC(C)CCCC(C)C(C)O
<b>Mol. weight [g/mol]:</b>	158.28
<b>CAS:</b>	15340-96-2

## Physical Properties

Property code	Value	Unit	Source
gf	-110.82	kJ/mol	Joback Method
hf	-417.80	kJ/mol	Joback Method
hfus	15.17	kJ/mol	Joback Method
hvap	53.37	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.830		Crippen Method
mcvol	157.630	ml/mol	McGowan Method
pc	2351.92	kPa	Joback Method
rinpol	1145.00		NIST Webbook
tb	519.06	K	Joback Method
tc	686.37	K	Joback Method
tf	218.28	K	Joback Method
vc	0.597	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.30	J/mol×K	519.06	Joback Method
cpg	395.45	J/mol×K	546.94	Joback Method
cpg	409.03	J/mol×K	574.83	Joback Method
cpg	422.04	J/mol×K	602.71	Joback Method
cpg	434.51	J/mol×K	630.60	Joback Method
cpg	446.45	J/mol×K	658.48	Joback Method
cpg	457.87	J/mol×K	686.37	Joback Method

dvisc	0.3779599	Paxs	218.28	Joback Method
dvisc	0.0269801	Paxs	268.41	Joback Method
dvisc	0.0044205	Paxs	318.54	Joback Method
dvisc	0.0011845	Paxs	368.67	Joback Method
dvisc	0.0004350	Paxs	418.80	Joback Method
dvisc	0.0001979	Paxs	468.93	Joback Method
dvisc	0.0001048	Paxs	519.06	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=C15340962&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15340962&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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical 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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