

# 3-decanon-2-ol

<b>Inchi:</b>	InChI=1S/C10H20O2/c1-3-4-5-6-7-8-10(12)9(2)11/h9,11H,3-8H2,1-2H3
<b>InchiKey:</b>	WDQKPFOXMDAVIN-UHFFFAOYSA-N
<b>Formula:</b>	C10H20O2
<b>SMILES:</b>	CCCCCCCC(=O)C(C)O
<b>Mol. weight [g/mol]:</b>	172.26

## Physical Properties

Property code	Value	Unit	Source
gf	-234.86	kJ/mol	Joback Method
hf	-519.82	kJ/mol	Joback Method
hfus	23.82	kJ/mol	Joback Method
hvap	60.89	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	2.297		Crippen Method
mcvol	159.200	ml/mol	McGowan Method
pc	2462.92	kPa	Joback Method
ripol	1874.00		NIST Webbook
tb	573.81	K	Joback Method
tc	743.57	K	Joback Method
tf	298.21	K	Joback Method
vc	0.615	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	403.15	J/molxK	573.81	Joback Method
cpg	415.84	J/molxK	602.10	Joback Method
cpg	427.99	J/molxK	630.40	Joback Method
cpg	439.61	J/molxK	658.69	Joback Method
cpg	450.71	J/molxK	686.99	Joback Method
cpg	461.31	J/molxK	715.28	Joback Method
cpg	471.43	J/molxK	743.57	Joback Method
dvisc	0.0185428	Paxs	298.21	Joback Method
dvisc	0.0043186	Paxs	344.14	Joback Method

dvisc	0.0014176	Paxs	390.08	Joback Method
dvisc	0.0005884	Paxs	436.01	Joback Method
dvisc	0.0002888	Paxs	481.94	Joback Method
dvisc	0.0001605	Paxs	527.88	Joback Method
dvisc	0.0000979	Paxs	573.81	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=R241024&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R241024&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical 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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