

# 3-Heptanol, 2,6-dimethyl-

<b>Other names:</b>	2,6-Dimethyl-3-heptanol
<b>Inchi:</b>	InChI=1S/C9H20O/c1-7(2)5-6-9(10)8(3)4/h7-10H,5-6H2,1-4H3
<b>InchiKey:</b>	XZDMJRIWJSNEGC-UHFFFAOYSA-N
<b>Formula:</b>	C9H20O
<b>SMILES:</b>	CC(C)CCC(O)C(C)C
<b>Mol. weight [g/mol]:</b>	144.25
<b>CAS:</b>	19549-73-6

## Physical Properties

Property code	Value	Unit	Source
gf	-119.24	kJ/mol	Joback Method
hf	-397.16	kJ/mol	Joback Method
hfus	12.58	kJ/mol	Joback Method
hvap	51.14	kJ/mol	Joback Method
log10ws	-2.48		Crippen Method
logp	2.440		Crippen Method
mcvol	143.540	ml/mol	McGowan Method
pc	2587.22	kPa	Joback Method
tb	444.15 ± 5.00	K	NIST Webbook
tb	448.15 ± 5.00	K	NIST Webbook
tb	448.65 ± 4.00	K	NIST Webbook
tc	664.60	K	Joback Method
tf	207.01	K	Joback Method
vc	0.540	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.97	J/mol×K	496.18	Joback Method
cpg	348.32	J/mol×K	524.25	Joback Method
cpg	361.14	J/mol×K	552.32	Joback Method
cpg	373.44	J/mol×K	580.39	Joback Method
cpg	385.22	J/mol×K	608.46	Joback Method
cpg	396.50	J/mol×K	636.53	Joback Method

cpg	407.30	J/molxK	664.60	Joback Method
dvisc	0.5757064	Paxs	207.01	Joback Method
dvisc	0.0376026	Paxs	255.20	Joback Method
dvisc	0.0058439	Paxs	303.40	Joback Method
dvisc	0.0015130	Paxs	351.59	Joback Method
dvisc	0.0005426	Paxs	399.79	Joback Method
dvisc	0.0002426	Paxs	447.98	Joback Method
dvisc	0.0001269	Paxs	496.18	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.69034e+01
Coeff. B	-4.64883e+03
Coeff. C	-6.57360e+01
Temperature range (K), min.	345.52
Temperature range (K), max.	466.78

## Sources

<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=C19549736&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19549736&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</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>

## 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>pvap:</b>	Vapor pressure
<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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