

# 5-Undecanol, 2-methyl-

<b>Other names:</b>	2-Methyl-5-undecanol
<b>Inchi:</b>	InChI=1S/C12H26O/c1-4-5-6-7-8-12(13)10-9-11(2)3/h11-13H,4-10H2,1-3H3
<b>InchiKey:</b>	IHRNKXOJQXUPBE-UHFFFAOYSA-N
<b>Formula:</b>	C12H26O
<b>SMILES:</b>	CCCCCCC(O)CCC(C)C
<b>Mol. weight [g/mol]:</b>	186.33
<b>CAS:</b>	33978-71-1

## Physical Properties

Property code	Value	Unit	Source
gf	-91.54	kJ/mol	Joback Method
hf	-453.80	kJ/mol	Joback Method
hfus	23.88	kJ/mol	Joback Method
hvap	58.21	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	3.754		Crippen Method
mcvol	185.810	ml/mol	McGowan Method
pc	1954.41	kPa	Joback Method
tb	565.26	K	Joback Method
tc	728.05	K	Joback Method
tf	255.82	K	Joback Method
vc	0.715	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	479.00	J/mol×K	565.26	Joback Method
cpg	549.01	J/mol×K	700.92	Joback Method
cpg	536.16	J/mol×K	673.79	Joback Method
cpg	522.76	J/mol×K	646.65	Joback Method
cpg	508.77	J/mol×K	619.52	Joback Method
cpg	494.19	J/mol×K	592.39	Joback Method
cpg	561.31	J/mol×K	728.05	Joback Method
dvisc	0.0000761	Paxs	565.26	Joback Method

dvisc	0.0001352	Paxs	513.69	Joback Method
dvisc	0.0002731	Paxs	462.11	Joback Method
dvisc	0.0006581	Paxs	410.54	Joback Method
dvisc	0.0020420	Paxs	358.97	Joback Method
dvisc	0.0092648	Paxs	307.39	Joback Method
dvisc	0.0773422	Paxs	255.82	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.53070e+01
Coeff. B	-4.70696e+03
Coeff. C	-8.36340e+01
Temperature range (K), min.	397.03
Temperature range (K), max.	554.54

## Sources

<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>
<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=C33978711&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33978711&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>

## 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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