

# 1-Hexanol, 2-ethyl-2-propyl-

<b>Other names:</b>	2-Ethyl-2-propyl-1-hexanol
<b>Inchi:</b>	InChI=1S/C11H24O/c1-4-7-9-11(6-3,10-12)8-5-2/h12H,4-10H2,1-3H3
<b>InchiKey:</b>	GPMZMENG TUFHPF-UHFFFAOYSA-N
<b>Formula:</b>	C11H24O
<b>SMILES:</b>	CCCCC(CC)(CO)CCC
<b>Mol. weight [g/mol]:</b>	172.31
<b>CAS:</b>	54461-00-6

## Physical Properties

Property code	Value	Unit	Source
gf	-92.24	kJ/mol	Joback Method
hf	-431.35	kJ/mol	Joback Method
hfus	20.92	kJ/mol	Joback Method
hvap	55.46	kJ/mol	Joback Method
log10ws	-3.45		Crippen Method
logp	3.365		Crippen Method
mcvol	171.720	ml/mol	McGowan Method
pc	2137.41	kPa	Joback Method
tb	540.03	K	Joback Method
tc	705.71	K	Joback Method
tf	276.97	K	Joback Method
vc	0.659	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	431.60	J/molxK	540.03	Joback Method
cpg	446.33	J/molxK	567.64	Joback Method
cpg	460.40	J/molxK	595.26	Joback Method
cpg	473.84	J/molxK	622.87	Joback Method
cpg	486.67	J/molxK	650.48	Joback Method
cpg	498.91	J/molxK	678.09	Joback Method
cpg	510.59	J/molxK	705.71	Joback Method
dvisc	0.0328701	Paxs	276.97	Joback Method

dvisc	0.0064311	Paxs	320.81	Joback Method
dvisc	0.0018627	Paxs	364.66	Joback Method
dvisc	0.0007039	Paxs	408.50	Joback Method
dvisc	0.0003212	Paxs	452.34	Joback Method
dvisc	0.0001684	Paxs	496.19	Joback Method
dvisc	0.0000980	Paxs	540.03	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=C54461006&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54461006&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical 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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