

# (S)-(+)-6-Methyl-1-octanol

<b>Other names:</b>	d-6-methyl-1-octanol
<b>Inchi:</b>	InChI=1S/C9H20O/c1-3-9(2)7-5-4-6-8-10/h9-10H,3-8H2,1-2H3/t9-/m1/s1
<b>InchiKey:</b>	WWRGKAMABZHM CN-SECBINFHSA-N
<b>Formula:</b>	C9H20O
<b>SMILES:</b>	CCC(C)CCCCO
<b>Mol. weight [g/mol]:</b>	144.25
<b>CAS:</b>	110453-78-6

## Physical Properties

Property code	Value	Unit	Source
gf	-114.36	kJ/mol	Joback Method
hf	-386.60	kJ/mol	Joback Method
hfus	19.63	kJ/mol	Joback Method
hvap	51.92	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	2.585		Crippen Method
mcvol	143.540	ml/mol	McGowan Method
pc	2545.61	kPa	Joback Method
tb	497.06	K	Joback Method
tc	659.14	K	Joback Method
tf	237.01	K	Joback Method
vc	0.552	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.58	J/mol×K	497.06	Joback Method
cpg	393.45	J/mol×K	632.13	Joback Method
cpg	382.60	J/mol×K	605.11	Joback Method
cpg	371.30	J/mol×K	578.10	Joback Method
cpg	359.54	J/mol×K	551.09	Joback Method
cpg	347.30	J/mol×K	524.07	Joback Method
cpg	403.87	J/mol×K	659.14	Joback Method
dvisc	0.0001409	Paxs	497.06	Joback Method

dvisc	0.0002468	Paxs	453.72	Joback Method
dvisc	0.0004864	Paxs	410.38	Joback Method
dvisc	0.0011254	Paxs	367.03	Joback Method
dvisc	0.0032599	Paxs	323.69	Joback Method
dvisc	0.0131188	Paxs	280.35	Joback Method
dvisc	0.0878509	Paxs	237.01	Joback Method

## Sources

<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>
<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=C110453786&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C110453786&amp;Units=SI</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>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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