

# 3-Hexene-2,5-diol

<b>Other names:</b>	Hex-3-ene-2,5-diol
<b>Inchi:</b>	InChI=1S/C6H12O2/c1-5(7)3-4-6(2)8/h3-8H,1-2H3/b4-3+
<b>InchiKey:</b>	AQSWYJHDAKIVIM-ONEGZZNKSA-N
<b>Formula:</b>	C6H12O2
<b>SMILES:</b>	CC(O)C=CC(C)O
<b>Mol. weight [g/mol]:</b>	116.16
<b>CAS:</b>	7319-23-5

## Physical Properties

Property code	Value	Unit	Source
gf	-198.66	kJ/mol	Joback Method
hf	-364.97	kJ/mol	Joback Method
hfus	12.63	kJ/mol	Joback Method
hvap	61.49	kJ/mol	Joback Method
log10ws	-0.94		Crippen Method
logp	0.304		Crippen Method
mcvol	102.840	ml/mol	McGowan Method
pc	4205.63	kPa	Joback Method
ripol	1940.00		NIST Webbook
ripol	1932.00		NIST Webbook
ripol	1932.00		NIST Webbook
ripol	1932.00		NIST Webbook
tb	524.32	K	Joback Method
tc	693.96	K	Joback Method
tf	243.94	K	Joback Method
vc	0.378	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	237.16	J/molxK	524.32	Joback Method
cpg	245.50	J/molxK	552.59	Joback Method
cpg	253.45	J/molxK	580.87	Joback Method
cpg	261.03	J/molxK	609.14	Joback Method

cpg	268.24	J/mol×K	637.41	Joback Method
cpg	275.12	J/mol×K	665.69	Joback Method
cpg	281.68	J/mol×K	693.96	Joback Method
dvisc	0.8111502	Paxs	243.94	Joback Method
dvisc	0.0456396	Paxs	290.67	Joback Method
dvisc	0.0056986	Paxs	337.40	Joback Method
dvisc	0.0011804	Paxs	384.13	Joback Method
dvisc	0.0003440	Paxs	430.86	Joback Method
dvisc	0.0001276	Paxs	477.59	Joback Method
dvisc	0.0000565	Paxs	524.32	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=C7319235&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7319235&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>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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