

# 1,5,7-octadien-3-ol

<b>Inchi:</b>	InChI=1S/C8H12O/c1-3-5-6-7-8(9)4-2/h3-6,8-9H,1-2,7H2/b6-5+
<b>InchiKey:</b>	VDZVLUMVRXPKNF-AATRIKPKSA-N
<b>Formula:</b>	C8H12O
<b>SMILES:</b>	C=CC=CCC(O)C=C
<b>Mol. weight [g/mol]:</b>	124.18

## Physical Properties

Property code	Value	Unit	Source
gf	133.12	kJ/mol	Joback Method
hf	2.12	kJ/mol	Joback Method
hfus	14.68	kJ/mol	Joback Method
hvap	48.31	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	1.666		Crippen Method
mcvol	116.550	ml/mol	McGowan Method
pc	3265.31	kPa	Joback Method
rinqol	1074.00		NIST Webbook
tb	471.70	K	Joback Method
tc	648.42	K	Joback Method
tf	217.14	K	Joback Method
vc	0.439	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	239.30	J/molxK	471.70	Joback Method
cpg	285.62	J/molxK	618.96	Joback Method
cpg	277.33	J/molxK	589.51	Joback Method
cpg	268.58	J/molxK	560.06	Joback Method
cpg	259.34	J/molxK	530.61	Joback Method
cpg	249.59	J/molxK	501.15	Joback Method
cpg	293.48	J/molxK	648.42	Joback Method
dvisc	0.0001447	Paxs	471.70	Joback Method
dvisc	0.0002530	Paxs	429.27	Joback Method

dvisc	0.0005000	Paxs	386.85	Joback Method
dvisc	0.0011690	Paxs	344.42	Joback Method
dvisc	0.0034695	Paxs	301.99	Joback Method
dvisc	0.0146952	Paxs	259.57	Joback Method
dvisc	0.1094142	Paxs	217.14	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=R332046&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R332046&amp;Units=SI</a>
<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>

## 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>rinpol:</b>	Non-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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