

# C9H16O

<b>Inchi:</b>	InChI=1S/C9H16O/c10-4-3-9-6-7-1-2-8(9)5-7/h7-10H,1-6H2
<b>InchiKey:</b>	KCJSRRQHLVFCEM-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O
<b>SMILES:</b>	OCCC1CC2CCC1C2
<b>Mol. weight [g/mol]:</b>	140.22
<b>CAS:</b>	70289-06-4

## Physical Properties

Property code	Value	Unit	Source
gf	-10.23	kJ/mol	Joback Method
hf	-262.22	kJ/mol	Joback Method
hfus	18.39	kJ/mol	Joback Method
hvap	52.00	kJ/mol	Joback Method
log10ws	-1.92		Crippen Method
logp	1.805		Crippen Method
mvol	121.820	ml/mol	McGowan Method
pc	3310.55	kPa	Joback Method
tb	510.58	K	Joback Method
tc	699.07	K	Joback Method
tf	280.13	K	Joback Method
vc	0.464	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.98	J/mol×K	510.58	Joback Method
cpg	322.20	J/mol×K	542.00	Joback Method
cpg	336.56	J/mol×K	573.41	Joback Method
cpg	350.11	J/mol×K	604.83	Joback Method
cpg	362.90	J/mol×K	636.24	Joback Method
cpg	374.96	J/mol×K	667.66	Joback Method
cpg	386.35	J/mol×K	699.07	Joback Method
dvisc	0.0092216	Paxs	280.13	Joback Method
dvisc	0.0042284	Paxs	318.54	Joback Method

dvisc	0.0022931	Paxs	356.95	Joback Method
dvisc	0.0014006	Paxs	395.36	Joback Method
dvisc	0.0009335	Paxs	433.76	Joback Method
dvisc	0.0006646	Paxs	472.17	Joback Method
dvisc	0.0004980	Paxs	510.58	Joback Method

## Sources

<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=C70289064&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C70289064&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>mccvol:</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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