

# Cyclooctanol, acetate

<b>Other names:</b>	Cyclooctyl acetate
<b>Inchi:</b>	InChI=1S/C10H18O2/c1-9(11)12-10-7-5-3-2-4-6-8-10/h10H,2-8H2,1H3
<b>InchiKey:</b>	VBSHAXJPLHCYTH-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O2
<b>SMILES:</b>	CC(=O)OC1CCCCCCC1
<b>Mol. weight [g/mol]:</b>	170.25
<b>CAS:</b>	772-60-1

## Physical Properties

Property code	Value	Unit	Source
gf	-200.35	kJ/mol	Joback Method
hf	-452.53	kJ/mol	Joback Method
hfus	12.08	kJ/mol	Joback Method
hvap	47.78	kJ/mol	Joback Method
log10ws	-2.88		Crippen Method
logp	2.662		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	2838.39	kPa	Joback Method
rinpol	1280.00		NIST Webbook
rinpol	1280.00		NIST Webbook
rinpol	1279.00		NIST Webbook
rinpol	1279.00		NIST Webbook
rinpol	1279.00		NIST Webbook
ripol	1645.00		NIST Webbook
tb	532.58	K	Joback Method
tc	753.32	K	Joback Method
tf	274.96	K	Joback Method
vc	0.536	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	356.67	J/mol×K	532.58	Joback Method
cpg	376.63	J/mol×K	569.37	Joback Method

cpg	395.53	J/mol×K	606.16	Joback Method
cpg	413.38	J/mol×K	642.95	Joback Method
cpg	430.17	J/mol×K	679.74	Joback Method
cpg	445.91	J/mol×K	716.53	Joback Method
cpg	460.58	J/mol×K	753.32	Joback Method
dvisc	0.0070282	Paxs	274.96	Joback Method
dvisc	0.0024190	Paxs	317.90	Joback Method
dvisc	0.0010731	Paxs	360.83	Joback Method
dvisc	0.0005659	Paxs	403.77	Joback Method
dvisc	0.0003375	Paxs	446.71	Joback Method
dvisc	0.0002204	Paxs	489.64	Joback Method
dvisc	0.0001541	Paxs	532.58	Joback Method

## Sources

<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=C772601&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C772601&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>
<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>

## 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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/78-724-2/Cyclooctanol-acetate.pdf>

Generated by Cheméo on 2024-04-20 02:33:57.223336547 +0000 UTC m=+15869686.143913863.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.