

# Ethylidenecyclooctane

<b>Inchi:</b>	InChI=1S/C10H18/c1-2-10-8-6-4-3-5-7-9-10/h2H,3-9H2,1H3
<b>InchiKey:</b>	WSOKCFIRHYCWJE-UHFFFAOYSA-N
<b>Formula:</b>	C10H18
<b>SMILES:</b>	CC=C1CCCCCCC1
<b>Mol. weight [g/mol]:</b>	138.25
<b>CAS:</b>	19780-51-9

## Physical Properties

Property code	Value	Unit	Source
gf	86.74	kJ/mol	Joback Method
hf	-111.36	kJ/mol	Joback Method
hfus	8.54	kJ/mol	Joback Method
hvap	39.72	kJ/mol	Joback Method
log10ws	-3.76		Crippen Method
logp	3.677		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2887.40	kPa	Joback Method
tb	467.60	K	Joback Method
tc	688.64	K	Joback Method
tf	217.40	K	Joback Method
vc	0.496	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.86	J/molxK	467.60	Joback Method
cpg	306.12	J/molxK	504.44	Joback Method
cpg	325.28	J/molxK	541.28	Joback Method
cpg	343.38	J/molxK	578.12	Joback Method
cpg	360.45	J/molxK	614.96	Joback Method
cpg	376.50	J/molxK	651.80	Joback Method
cpg	391.57	J/molxK	688.64	Joback Method
dvisc	0.0185822	Paxs	217.40	Joback Method
dvisc	0.0044204	Paxs	259.10	Joback Method

dvisc	0.0015658	Paxs	300.80	Joback Method
dvisc	0.0007141	Paxs	342.50	Joback Method
dvisc	0.0003862	Paxs	384.20	Joback Method
dvisc	0.0002356	Paxs	425.90	Joback Method
dvisc	0.0001569	Paxs	467.60	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=C19780519&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19780519&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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/76-238-4/Ethylidenecyclooctane.pdf>

Generated by Cheméo on 2024-04-26 03:46:11.564650266 +0000 UTC m=+16392420.485227578.

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