

# 9-Cycloheptadecen-1-one, (Z)-

<b>Other names:</b>	Civetone Zibeton 9-Cycloheptadecen-1-one cis-Civetone (Z)-9-cycloheptadecen-1-one
<b>Inchi:</b>	InChI=1S/C17H30O/c18-17-15-13-11-9-7-5-3-1-2-4-6-8-10-12-14-16-17/h1-2H,3-16H2/b
<b>InchiKey:</b>	ZKVZSBSZTMPBQR-UPHRSURJSA-N
<b>Formula:</b>	C17H30O
<b>SMILES:</b>	O=C1CCCCCCCC=CCCCCCC1
<b>Mol. weight [g/mol]:</b>	250.42
<b>CAS:</b>	542-46-1

## Physical Properties

Property code	Value	Unit	Source
chs	-10480.00	kJ/mol	NIST Webbook
gf	-101.31	kJ/mol	Joback Method
hf	-408.00 ± 14.00	kJ/mol	NIST Webbook
hfs	-484.00 ± 14.00	kJ/mol	NIST Webbook
hfus	8.18	kJ/mol	Joback Method
hsub	75.70 ± 0.84	kJ/mol	NIST Webbook
hvap	60.61	kJ/mol	Joback Method
log10ws	-5.97		Crippen Method
logp	5.587		Crippen Method
mcvol	236.800	ml/mol	McGowan Method
pc	1947.51	kPa	Joback Method
tb	726.53	K	Joback Method
tc	997.73	K	Joback Method
tf	323.23	K	Joback Method
vc	0.827	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	725.42	J/mol×K	726.53	Joback Method

cpg	756.19	J/mol×K	771.73	Joback Method
cpg	783.89	J/mol×K	816.93	Joback Method
cpg	808.39	J/mol×K	862.13	Joback Method
cpg	829.59	J/mol×K	907.33	Joback Method
cpg	847.35	J/mol×K	952.53	Joback Method
cpg	861.57	J/mol×K	997.73	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	615.20	K	98.90	NIST Webbook
tbrp	432.20	K	0.30	NIST Webbook

## Sources

<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>
<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=C542461&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C542461&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsub:</b>	Enthalpy of sublimation 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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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