

# 2,6-Octadiene, 2,6-dimethyl-

<b>Other names:</b>	2,6-Dimethyl 2,6-octadiene
<b>Inchi:</b>	InChI=1S/C10H18/c1-5-10(4)8-6-7-9(2)3/h5,7H,6,8H2,1-4H3
<b>InchiKey:</b>	MZPDTOMKQCMETI-UHFFFAOYSA-N
<b>Formula:</b>	C10H18
<b>SMILES:</b>	<chem>CC=C(C)CCC=C(C)C</chem>
<b>Mol. weight [g/mol]:</b>	138.25
<b>CAS:</b>	2792-39-4

## Physical Properties

Property code	Value	Unit	Source
gf	176.66	kJ/mol	Joback Method
hf	-34.87	kJ/mol	Joback Method
hfus	19.44	kJ/mol	Joback Method
hvap	37.93	kJ/mol	Joback Method
log10ws	-3.72		Crippen Method
logp	3.699		Crippen Method
mcvol	143.160	ml/mol	McGowan Method
pc	2347.36	kPa	Joback Method
rinpol	978.00		NIST Webbook
rinpol	978.00		NIST Webbook
rinpol	977.00		NIST Webbook
rinpol	977.00		NIST Webbook
rinpol	977.00		NIST Webbook
rinpol	977.00		NIST Webbook
rinpol	979.00		NIST Webbook
rinpol	978.00		NIST Webbook
rinpol	979.00		NIST Webbook
rinpol	977.00		NIST Webbook
rinpol	977.00		NIST Webbook
rinpol	990.00		NIST Webbook
rinpol	978.00		NIST Webbook
rinpol	977.00		NIST Webbook
rinpol	978.00		NIST Webbook
rinpol	979.00		NIST Webbook
rinpol	978.00		NIST Webbook
rinpol	986.00		NIST Webbook
rinpol	985.00		NIST Webbook

rnpol	986.00		NIST Webbook
rnpol	980.00		NIST Webbook
rnpol	978.00		NIST Webbook
rnpol	979.00		NIST Webbook
rnpol	978.00		NIST Webbook
rnpol	976.00		NIST Webbook
rnpol	977.00		NIST Webbook
rnpol	978.00		NIST Webbook
tb	436.28	K	Joback Method
tc	621.64	K	Joback Method
tf	164.38	K	Joback Method
vc	0.557	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	284.91	J/mol×K	436.28	Joback Method
cpg	300.18	J/mol×K	467.17	Joback Method
cpg	314.68	J/mol×K	498.07	Joback Method
cpg	328.46	J/mol×K	528.96	Joback Method
cpg	341.53	J/mol×K	559.86	Joback Method
cpg	353.94	J/mol×K	590.75	Joback Method
cpg	365.73	J/mol×K	621.64	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=C2792394&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2792394&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>
<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>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>hvac:</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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