

# 2,4-Heptadiene, (Z,Z)

<b>Other names:</b>	cis-2,cis-4-heptadiene
<b>Inchi:</b>	InChI=1S/C7H12/c1-3-5-7-6-4-2/h3,5-7H,4H2,1-2H3/b5-3-,7-6-
<b>InchiKey:</b>	XTJLXXCARCJVPJ-VKLRWAGZSA-N
<b>Formula:</b>	C7H12
<b>SMILES:</b>	CC=CC=CCC
<b>Mol. weight [g/mol]:</b>	96.17

## Physical Properties

Property code	Value	Unit	Source
gf	168.50	kJ/mol	Joback Method
hf	46.63	kJ/mol	Joback Method
hfus	14.29	kJ/mol	Joback Method
hvap	31.09	kJ/mol	Joback Method
log10ws	-2.46		Crippen Method
logp	2.529		Crippen Method
mvol	100.890	ml/mol	McGowan Method
pc	3135.00	kPa	Joback Method
rinpol	754.60		NIST Webbook
rinpol	749.90		NIST Webbook
tb	367.88	K	Joback Method
tc	549.48	K	Joback Method
tf	158.49	K	Joback Method
vc	0.388	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	166.24	J/mol×K	367.88	Joback Method
cpg	177.76	J/mol×K	398.15	Joback Method
cpg	188.68	J/mol×K	428.41	Joback Method
cpg	199.03	J/mol×K	458.68	Joback Method
cpg	208.84	J/mol×K	488.95	Joback Method
cpg	218.14	J/mol×K	519.21	Joback Method
cpg	226.95	J/mol×K	549.48	Joback Method

dvisc	0.0044130	Paxs	158.49	Joback Method
dvisc	0.0015445	Paxs	193.39	Joback Method
dvisc	0.0007452	Paxs	228.29	Joback Method
dvisc	0.0004362	Paxs	263.19	Joback Method
dvisc	0.0002894	Paxs	298.08	Joback Method
dvisc	0.0002093	Paxs	332.98	Joback Method
dvisc	0.0001609	Paxs	367.88	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=R147383&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R147383&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>mvol:</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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