

# (E,Z)-2,4-Hexadienal

<b>Other names:</b>	(E,Z)-Hexa-2,4-dienal 2,4-Hexadienal, (E,Z)-
<b>Inchi:</b>	InChI=1S/C6H8O/c1-2-3-4-5-6-7/h2-6H,1H3/b3-2-,5-4+
<b>InchiKey:</b>	BATOPA ZDIZEVQF-AWYLAFAOSA-N
<b>Formula:</b>	C6H8O
<b>SMILES:</b>	CC=CC=CC=O
<b>Mol. weight [g/mol]:</b>	96.13

## Physical Properties

Property code	Value	Unit	Source
gf	60.56	kJ/mol	Joback Method
hf	-18.31	kJ/mol	Joback Method
hfus	13.99	kJ/mol	Joback Method
hvap	35.59	kJ/mol	Joback Method
log10ws	-1.32		Crippen Method
logp	1.318		Crippen Method
mcvol	88.370	ml/mol	McGowan Method
pc	3829.28	kPa	Joback Method
rinpol	882.00		NIST Webbook
rinpol	829.00		NIST Webbook
rinpol	841.00		NIST Webbook
rinpol	841.00		NIST Webbook
rinpol	895.00		NIST Webbook
rinpol	895.00		NIST Webbook
rinpol	879.00		NIST Webbook
rinpol	884.00		NIST Webbook
rinpol	841.00		NIST Webbook
ripol	1391.00		NIST Webbook
ripol	1405.00		NIST Webbook
tb	393.66	K	Joback Method
tc	584.72	K	Joback Method
tf	189.22	K	Joback Method
vc	0.348	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	149.61	J/molxK	393.66	Joback Method
cpg	189.99	J/molxK	552.88	Joback Method
cpg	182.88	J/molxK	521.04	Joback Method
cpg	175.32	J/molxK	489.19	Joback Method
cpg	167.28	J/molxK	457.35	Joback Method
cpg	158.72	J/molxK	425.50	Joback Method
cpg	196.67	J/molxK	584.72	Joback Method
dvisc	0.0002152	Paxs	393.66	Joback Method
dvisc	0.0002751	Paxs	359.59	Joback Method
dvisc	0.0003703	Paxs	325.51	Joback Method
dvisc	0.0005342	Paxs	291.44	Joback Method
dvisc	0.0008493	Paxs	257.37	Joback Method
dvisc	0.0015554	Paxs	223.29	Joback Method
dvisc	0.0035420	Paxs	189.22	Joback Method

## 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=C53398768&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C53398768&amp;Units=SI</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
<b>vc:</b>	Critical Volume

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