

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

Inchi:	InChI=1S/C7H10O/c1-2-3-4-5-6-7-8/h3-7H,2H2,1H3/b4-3-,6-5-
InchiKey:	SATICYYAWWYRAM-OUPQRBNQSA-N
Formula:	C7H10O
SMILES:	CCC=CC=CC=O
Mol. weight [g/mol]:	110.15

## Physical Properties

Property code	Value	Unit	Source
gf	68.98	kJ/mol	Joback Method
hf	-38.95	kJ/mol	Joback Method
hfus	16.58	kJ/mol	Joback Method
hvap	37.81	kJ/mol	Joback Method
log10ws	-1.74		Crippen Method
logp	1.708		Crippen Method
mcvol	102.460	ml/mol	McGowan Method
pc	3411.87	kPa	Joback Method
rinpola	923.00		NIST Webbook
rinpola	1013.00		NIST Webbook
rinpola	1001.00		NIST Webbook
rinpola	923.00		NIST Webbook
tb	416.54	K	Joback Method
tc	606.14	K	Joback Method
tf	200.49	K	Joback Method
vc	0.405	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	186.30	J/molxK	416.54	Joback Method
cpg	196.67	J/molxK	448.14	Joback Method
cpg	206.45	J/molxK	479.74	Joback Method
cpg	215.67	J/molxK	511.34	Joback Method
cpg	224.36	J/molxK	542.94	Joback Method
cpg	232.55	J/molxK	574.54	Joback Method

cpg	240.28	J/molxK	606.14	Joback Method
dvisc	0.0039290	Paxs	200.49	Joback Method
dvisc	0.0016852	Paxs	236.50	Joback Method
dvisc	0.0009040	Paxs	272.51	Joback Method
dvisc	0.0005608	Paxs	308.51	Joback Method
dvisc	0.0003844	Paxs	344.52	Joback Method
dvisc	0.0002831	Paxs	380.53	Joback Method
dvisc	0.0002197	Paxs	416.54	Joback Method

## Sources

<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=R235653&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R235653&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>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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