

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

Other names:	(Z)-2,(Z)-4-decadienal
Inchi:	InChI=1S/C10H16O/c1-2-3-4-5-6-7-8-9-10-11/h6-10H,2-5H2,1H3/b7-6-,9-8-
InchiKey:	JZQKTMZYLNHNFPL-JPDBVBESSA-N
Formula:	C10H16O
SMILES:	CCCCC=CC=CC=O
Mol. weight [g/mol]:	152.23

## Physical Properties

Property code	Value	Unit	Source
gf	94.24	kJ/mol	Joback Method
hf	-100.87	kJ/mol	Joback Method
hfus	24.35	kJ/mol	Joback Method
hvap	44.49	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	2.878		Crippen Method
mcvol	144.730	ml/mol	McGowan Method
pc	2500.00	kPa	Joback Method
rinpol	1284.00		NIST Webbook
rinpol	1267.00		NIST Webbook
rinpol	1264.00		NIST Webbook
rinpol	1312.00		NIST Webbook
ripol	1696.00		NIST Webbook
tb	485.18	K	Joback Method
tc	669.38	K	Joback Method
tf	234.30	K	Joback Method
vc	0.573	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.28	J/molxK	485.18	Joback Method
cpg	369.81	J/molxK	638.68	Joback Method
cpg	358.96	J/molxK	607.98	Joback Method
cpg	347.52	J/molxK	577.28	Joback Method

cpg	335.45	J/molxK	546.58	Joback Method
cpg	322.72	J/molxK	515.88	Joback Method
cpg	380.10	J/molxK	669.38	Joback Method
dvisc	0.0002049	Paxs	485.18	Joback Method
dvisc	0.0002689	Paxs	443.37	Joback Method
dvisc	0.0003733	Paxs	401.55	Joback Method
dvisc	0.0005593	Paxs	359.74	Joback Method
dvisc	0.0009322	Paxs	317.93	Joback Method
dvisc	0.0018135	Paxs	276.11	Joback Method
dvisc	0.0044740	Paxs	234.30	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R235564&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R235564&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.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>

## 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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