

# (2E,4E)-2,4-Dimethyl-2,4-hexadienal

<b>Inchi:</b>	InChI=1S/C8H12O/c1-4-7(2)5-8(3)6-9/h4-6H,1-3H3/b7-4+,8-5+
<b>InchiKey:</b>	JLRXGFYYIORWGF-NSLJXJERSA-N
<b>Formula:</b>	C8H12O
<b>SMILES:</b>	CC=C(C)C=C(C)C=O
<b>Mol. weight [g/mol]:</b>	124.18

## Physical Properties

Property code	Value	Unit	Source
gf	60.30	kJ/mol	Joback Method
hf	-79.17	kJ/mol	Joback Method
hfus	16.55	kJ/mol	Joback Method
hvap	40.20	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	2.098		Crippen Method
mcvol	116.550	ml/mol	McGowan Method
pc	3093.29	kPa	Joback Method
rinpol	1068.00		NIST Webbook
rinpol	1068.00		NIST Webbook
tb	439.18	K	Joback Method
tc	634.54	K	Joback Method
tf	183.84	K	Joback Method
vc	0.463	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	225.08	J/mol×K	439.18	Joback Method
cpg	236.97	J/mol×K	471.74	Joback Method
cpg	248.18	J/mol×K	504.30	Joback Method
cpg	258.74	J/mol×K	536.86	Joback Method
cpg	268.70	J/mol×K	569.42	Joback Method
cpg	278.09	J/mol×K	601.98	Joback Method
cpg	286.95	J/mol×K	634.54	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R597649&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R597649&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>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>hvp:</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>rinp:</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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