

# (E,E,Z)-2,4,6-dodecatrienal

<b>Inchi:</b>	InChI=1S/C12H18O/c1-2-3-4-5-6-7-8-9-10-11-12-13/h6-12H,2-5H2,1H3/b7-6-,9-8+,11-10-
<b>InchiKey:</b>	IZNAXSQBWJPYHG-KBPWROHVSA-N
<b>Formula:</b>	C12H18O
<b>SMILES:</b>	CCCCC=CC=CC=CC=O
<b>Mol. weight [g/mol]:</b>	178.27

## Physical Properties

Property code	Value	Unit	Source
gf	191.30	kJ/mol	Joback Method
hf	-24.93	kJ/mol	Joback Method
hfus	29.73	kJ/mol	Joback Method
hvap	48.90	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	3.434		Crippen Method
mcvol	168.610	ml/mol	McGowan Method
pc	2183.60	kPa	Joback Method
ripol	1577.00		NIST Webbook
ripol	2183.00		NIST Webbook
tb	535.10	K	Joback Method
tc	723.30	K	Joback Method
tf	251.76	K	Joback Method
vc	0.664	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	382.90	J/molxK	535.10	Joback Method
cpg	448.00	J/molxK	691.94	Joback Method
cpg	436.40	J/molxK	660.57	Joback Method
cpg	424.14	J/molxK	629.20	Joback Method
cpg	411.17	J/molxK	597.83	Joback Method
cpg	397.44	J/molxK	566.47	Joback Method
cpg	459.00	J/molxK	723.30	Joback Method
dvisc	0.0001538	Paxs	535.10	Joback Method

dvisc	0.0002039	Paxs	487.88	Joback Method
dvisc	0.0002874	Paxs	440.65	Joback Method
dvisc	0.0004398	Paxs	393.43	Joback Method
dvisc	0.0007558	Paxs	346.21	Joback Method
dvisc	0.0015411	Paxs	298.98	Joback Method
dvisc	0.0041052	Paxs	251.76	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=R237000&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R237000&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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