

# (E)-2-PentylNon-2-enal

Inchi:	InChI=1S/C14H26O/c1-3-5-7-8-10-12-14(13-15)11-9-6-4-2/h12-13H,3-11H2,1-2H3/b14-1
InchiKey:	VIKQYIINCNAGJW-WYMLVPIESA-N
Formula:	C14H26O
SMILES:	CCCCCCC=C(C=O)CCCC
Mol. weight [g/mol]:	210.36

## Physical Properties

Property code	Value	Unit	Source
gf	39.15	kJ/mol	Joback Method
hf	-310.44	kJ/mol	Joback Method
hfus	33.20	kJ/mol	Joback Method
hvap	53.52	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	4.662		Crippen Method
mcvol	205.390	ml/mol	McGowan Method
pc	1692.12	kPa	Joback Method
rinpol	1570.00		NIST Webbook
rinpol	1570.00		NIST Webbook
ripol	1900.00		NIST Webbook
ripol	1900.00		NIST Webbook
tb	572.42	K	Joback Method
tc	745.67	K	Joback Method
tf	270.50	K	Joback Method
vc	0.818	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.31	J/molxK	572.42	Joback Method
cpg	535.02	J/molxK	601.30	Joback Method
cpg	550.98	J/molxK	630.17	Joback Method
cpg	566.21	J/molxK	659.05	Joback Method
cpg	580.75	J/molxK	687.92	Joback Method
cpg	594.62	J/molxK	716.80	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R341916&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R341916&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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>mccvol:</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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