

# (Z)-6-Tridecenal

Inchi:	InChI=1S/C13H24O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14/h7-8,13H,2-6,9-12H2,1H3/b8-7+
InchiKey:	QTNURDICRCEXFI-BQYQJAHWSA-N
Formula:	C13H24O
SMILES:	CCCCCCC=CCCCC=O
Mol. weight [g/mol]:	196.33

## Physical Properties

Property code	Value	Unit	Source
gf	39.28	kJ/mol	Joback Method
hf	-280.01	kJ/mol	Joback Method
hfus	31.92	kJ/mol	Joback Method
hvap	51.21	kJ/mol	Joback Method
log10ws	-4.40		Crippen Method
logp	4.272		Crippen Method
mcvol	191.300	ml/mol	McGowan Method
pc	1826.28	kPa	Joback Method
rinpol	1471.00		NIST Webbook
tb	549.66	K	Joback Method
tc	721.56	K	Joback Method
tf	273.19	K	Joback Method
vc	0.760	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	467.87	J/molxK	549.66	Joback Method
cpg	483.80	J/molxK	578.31	Joback Method
cpg	499.02	J/molxK	606.96	Joback Method
cpg	513.56	J/molxK	635.61	Joback Method
cpg	527.44	J/molxK	664.26	Joback Method
cpg	540.69	J/molxK	692.91	Joback Method
cpg	553.33	J/molxK	721.56	Joback Method
dvisc	0.0045438	Paxs	273.19	Joback Method
dvisc	0.0018476	Paxs	319.27	Joback Method

dvisc	0.0009427	Paxs	365.35	Joback Method
dvisc	0.0005592	Paxs	411.43	Joback Method
dvisc	0.0003685	Paxs	457.50	Joback Method
dvisc	0.0002621	Paxs	503.58	Joback Method
dvisc	0.0001974	Paxs	549.66	Joback Method

## Sources

<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=R285599&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R285599&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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/23-611-7/Z-6-Tridecenal.pdf>

Generated by Cheméo on 2024-04-19 01:35:26.311844259 +0000 UTC m=+15779775.232421572.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.