

# 9,12,15-Octadecatrienal

<b>Other names:</b>	Octadeca-9,12,15-trienal
<b>Inchi:</b>	InChI=1S/C18H30O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19/h3-4,6-7,9-10,18
<b>InchiKey:</b>	TUCMDDWTBVMRTP-IUQGRGSQSA-N
<b>Formula:</b>	C18H30O
<b>SMILES:</b>	CCC=CCC=CCC=CCCCCCCCC=O
<b>Mol. weight [g/mol]:</b>	262.43
<b>CAS:</b>	26537-71-3

## Physical Properties

Property code	Value	Unit	Source
gf	241.82	kJ/mol	Joback Method
hf	-148.77	kJ/mol	Joback Method
hfus	45.27	kJ/mol	Joback Method
hvap	62.26	kJ/mol	Joback Method
log10ws	-6.20		Crippen Method
logp	5.775		Crippen Method
mcvol	253.150	ml/mol	McGowan Method
pc	1355.63	kPa	Joback Method
rinpol	2109.00		NIST Webbook
rinpol	2045.00		NIST Webbook
rinpol	2061.00		NIST Webbook
rinpol	2045.00		NIST Webbook
tb	672.38	K	Joback Method
tc	851.25	K	Joback Method
tf	319.38	K	Joback Method
vc	1.000	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	692.79	J/mol×K	672.38	Joback Method
cpg	710.24	J/mol×K	702.19	Joback Method
cpg	726.84	J/mol×K	732.00	Joback Method
cpg	742.65	J/mol×K	761.81	Joback Method

cpg	757.72	J/molxK	791.62	Joback Method
cpg	772.11	J/molxK	821.43	Joback Method
cpg	785.87	J/molxK	851.25	Joback Method
dvisc	0.0028878	Paxs	319.38	Joback Method
dvisc	0.0010250	Paxs	378.21	Joback Method
dvisc	0.0004808	Paxs	437.05	Joback Method
dvisc	0.0002699	Paxs	495.88	Joback Method
dvisc	0.0001713	Paxs	554.71	Joback Method
dvisc	0.0001186	Paxs	613.55	Joback Method
dvisc	0.0000876	Paxs	672.38	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=C26537713&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C26537713&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

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