

# 7,23-Hentriacontadiene

<b>Inchi:</b>	InChI=1S/C31H60/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-30-28-26-24-22-20-18-
<b>InchiKey:</b>	IUADKQXYIUGUNB-LDLWNPHPSA-N
<b>Formula:</b>	C31H60
<b>SMILES:</b>	CCCCC=CCCCCCCCCCCCCCCC=CCCCCCC
<b>Mol. weight [g/mol]:</b>	432.81

## Physical Properties

Property code	Value	Unit	Source
gf	370.58	kJ/mol	Joback Method
hf	-448.73	kJ/mol	Joback Method
hfus	76.45	kJ/mol	Joback Method
hvap	84.52	kJ/mol	Joback Method
log10ws	-12.51		Crippen Method
logp	11.891		Crippen Method
mvol	439.050	ml/mol	McGowan Method
pc	597.80	kPa	Joback Method
rinpol	3052.00		NIST Webbook
rinpol	3052.00		NIST Webbook
tb	917.00	K	Joback Method
tc	1129.40	K	Joback Method
tf	428.97	K	Joback Method
vc	1.732	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1497.04	J/molxK	917.00	Joback Method
cpg	1523.71	J/molxK	952.40	Joback Method
cpg	1549.05	J/molxK	987.80	Joback Method
cpg	1573.15	J/molxK	1023.20	Joback Method
cpg	1596.15	J/molxK	1058.60	Joback Method
cpg	1618.16	J/molxK	1094.00	Joback Method
cpg	1639.31	J/molxK	1129.40	Joback Method
dvisc	0.0008291	Paxs	428.97	Joback Method

dvisc	0.0002542	Paxs	510.31	Joback Method
dvisc	0.0001079	Paxs	591.65	Joback Method
dvisc	0.0000563	Paxs	672.99	Joback Method
dvisc	0.0000338	Paxs	754.32	Joback Method
dvisc	0.0000224	Paxs	835.66	Joback Method
dvisc	0.0000160	Paxs	917.00	Joback Method

## Sources

<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=R406949&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R406949&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>

## 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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