

# 9-Hentriacontene

<b>Inchi:</b>	InChI=1S/C31H62/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>	LYSGEHYFDZAOAX-HTXNQAPBSA-N
<b>Formula:</b>	C31H62
<b>SMILES:</b>	CCCCCCCC=CCCCCCCCCCCCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	434.82

## Physical Properties

Property code	Value	Unit	Source
gf	290.36	kJ/mol	Joback Method
hf	-565.95	kJ/mol	Joback Method
hfus	76.25	kJ/mol	Joback Method
hvap	84.56	kJ/mol	Joback Method
log10ws	-12.65		Crippen Method
logp	12.115		Crippen Method
mcvol	443.350	ml/mol	McGowan Method
pc	582.88	kPa	Joback Method
rinpol	3069.00		NIST Webbook
rinpol	3071.23		NIST Webbook
rinpol	3070.00		NIST Webbook
rinpol	3082.00		NIST Webbook
rinpol	3070.00		NIST Webbook
tb	912.84	K	Joback Method
tc	1126.80	K	Joback Method
tf	434.05	K	Joback Method
vc	1.752	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1523.51	J/molxK	912.84	Joback Method
cpg	1646.97	J/molxK	1091.14	Joback Method
cpg	1624.86	J/molxK	1055.48	Joback Method
cpg	1601.56	J/molxK	1019.82	Joback Method
cpg	1576.98	J/molxK	984.16	Joback Method

cpg	1551.00	J/molxK	948.50	Joback Method
cpg	1668.02	J/molxK	1126.80	Joback Method
dvisc	0.0000183	Paxs	912.84	Joback Method
dvisc	0.0000256	Paxs	833.04	Joback Method
dvisc	0.0000384	Paxs	753.24	Joback Method
dvisc	0.0000637	Paxs	673.44	Joback Method
dvisc	0.0001207	Paxs	593.65	Joback Method
dvisc	0.0002792	Paxs	513.85	Joback Method
dvisc	0.0008791	Paxs	434.05	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=R282109&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R282109&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>rinpola:</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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