

# 9-Triacontene

<b>Other names:</b>	triacont-9-ene
<b>Inchi:</b>	InChI=1S/C30H60/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-30-28-26-24-22-20-18-16
<b>InchiKey:</b>	KPNPXPYUPBOKRV-HTXNQAPBSA-N
<b>Formula:</b>	C30H60
<b>SMILES:</b>	CCCCCCCCC=CCCCCCCCCCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	420.80

## Physical Properties

Property code	Value	Unit	Source
gf	281.94	kJ/mol	Joback Method
hf	-545.31	kJ/mol	Joback Method
hfus	73.66	kJ/mol	Joback Method
hvap	82.33	kJ/mol	Joback Method
log10ws	-12.23		Crippen Method
logp	11.725		Crippen Method
mvol	429.260	ml/mol	McGowan Method
pc	610.87	kPa	Joback Method
rinpol	2994.00		NIST Webbook
rinpol	2970.48		NIST Webbook
tb	889.96	K	Joback Method
tc	1094.86	K	Joback Method
tf	422.78	K	Joback Method
vc	1.696	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1456.08	J/molxK	889.96	Joback Method
cpg	1482.55	J/molxK	924.11	Joback Method
cpg	1507.61	J/molxK	958.26	Joback Method
cpg	1531.37	J/molxK	992.41	Joback Method
cpg	1553.90	J/molxK	1026.56	Joback Method
cpg	1575.32	J/molxK	1060.71	Joback Method
cpg	1595.71	J/molxK	1094.86	Joback Method

dvisc	0.0010116	Paxs	422.78	Joback Method
dvisc	0.0003220	Paxs	500.64	Joback Method
dvisc	0.0001395	Paxs	578.51	Joback Method
dvisc	0.0000737	Paxs	656.37	Joback Method
dvisc	0.0000446	Paxs	734.23	Joback Method
dvisc	0.0000297	Paxs	812.10	Joback Method
dvisc	0.0000212	Paxs	889.96	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=R282169&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R282169&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>mvol:</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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