

# 9-heptacosene

<b>Other names:</b>	heptacos-9-ene
<b>Inchi:</b>	InChI=1S/C27H54/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-26-24-22-20-18-16-14-12-10
<b>InchiKey:</b>	WWHBGRQNRIORRZ-HTXNQAPBSA-N
<b>Formula:</b>	C27H54
<b>SMILES:</b>	CCCCCCCCC=CCCCCCCCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	378.72

## Physical Properties

Property code	Value	Unit	Source
gf	256.68	kJ/mol	Joback Method
hf	-483.39	kJ/mol	Joback Method
hfus	65.89	kJ/mol	Joback Method
hvap	75.65	kJ/mol	Joback Method
log10ws	-10.98		Crippen Method
logp	10.555		Crippen Method
mcvol	386.990	ml/mol	McGowan Method
pc	708.09	kPa	Joback Method
rinpol	2669.00		NIST Webbook
rinpol	2675.00		NIST Webbook
rinpol	2671.31		NIST Webbook
rinpol	2672.00		NIST Webbook
rinpol	2678.00		NIST Webbook
rinpol	2675.00		NIST Webbook
rinpol	2669.00		NIST Webbook
rinpol	2673.00		NIST Webbook
rinpol	2672.00		NIST Webbook
rinpol	2671.31		NIST Webbook
tb	821.32	K	Joback Method
tc	1005.57	K	Joback Method
tf	388.97	K	Joback Method
vc	1.528	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1257.22	J/mol×K	821.32	Joback Method
cpg	1366.23	J/mol×K	974.86	Joback Method
cpg	1346.50	J/mol×K	944.16	Joback Method
cpg	1325.80	J/mol×K	913.45	Joback Method
cpg	1304.06	J/mol×K	882.74	Joback Method
cpg	1281.22	J/mol×K	852.03	Joback Method
cpg	1385.05	J/mol×K	1005.57	Joback Method
dvisc	0.0000330	Paxs	821.32	Joback Method
dvisc	0.0000459	Paxs	749.26	Joback Method
dvisc	0.0000686	Paxs	677.20	Joback Method
dvisc	0.0001129	Paxs	605.14	Joback Method
dvisc	0.0002123	Paxs	533.09	Joback Method
dvisc	0.0004867	Paxs	461.03	Joback Method
dvisc	0.0015168	Paxs	388.97	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=R282114&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R282114&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>

## 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>hvac:</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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