

# 13-Nonacosene

**Inchi:** InChI=1S/C29H58/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-28-26-24-22-20-18-16-14-12-10-8-6-4-2  
**InchiKey:** BXDVXJGLEVABDI-IMVLJIQESA-N  
**Formula:** C29H58  
**SMILES:** CCCCCCCCCCCC=CCCCCCCCCCCCCCCC  
**Mol. weight [g/mol]:** 406.77

## Physical Properties

Property code	Value	Unit	Source
gf	273.52	kJ/mol	Joback Method
hf	-524.67	kJ/mol	Joback Method
hfus	71.07	kJ/mol	Joback Method
hvap	80.11	kJ/mol	Joback Method
log10ws	-11.82		Crippen Method
logp	11.335		Crippen Method
mcvol	415.170	ml/mol	McGowan Method
pc	640.92	kPa	Joback Method
rinpol	2878.00		NIST Webbook
tb	867.08	K	Joback Method
tc	1064.07	K	Joback Method
tf	411.51	K	Joback Method
vc	1.639	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1389.20	J/molxK	867.08	Joback Method
cpg	1504.64	J/molxK	1031.24	Joback Method
cpg	1483.85	J/molxK	998.41	Joback Method
cpg	1461.99	J/molxK	965.58	Joback Method
cpg	1438.98	J/molxK	932.74	Joback Method
cpg	1414.75	J/molxK	899.91	Joback Method
cpg	1524.45	J/molxK	1064.07	Joback Method
dvisc	0.0000246	Paxs	867.08	Joback Method
dvisc	0.0000344	Paxs	791.15	Joback Method

dvisc	0.0000516	Paxs	715.22	Joback Method
dvisc	0.0000852	Paxs	639.29	Joback Method
dvisc	0.0001609	Paxs	563.37	Joback Method
dvisc	0.0003705	Paxs	487.44	Joback Method
dvisc	0.0011611	Paxs	411.51	Joback Method

## Sources

<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>
<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=R528064&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R528064&amp;Units=SI</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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