

# 2,6,10,14,18-Pentamethyl-13-(3-methyl-pent-4-enylidene)-nonadeca-2,6,10(trans)-triene

Other names:

2,6,10,14,18-Pentamethyl-13-(3-methyl-pent-4-enylidene)-nonadeca-2,6,10(trans)-triene

Inchi: InChI=1S/C30H52/c1-10-26(6)20-22-30(29(9)19-12-15-25(4)5)23-21-28(8)18-13-17-27(7

InchiKey:

BNYPZWFLESHHNE-OGXFWODGSA-N

Formula:

C30H52

SMILES:

C=CC(C)CC=C(CC=C(C)CCC=C(C)CCC=C(C)C)C(C)CCCC(C)C

Mol. weight [g/mol]:

412.73

## Physical Properties

Property code	Value	Unit	Source
gf	568.92	kJ/mol	Joback Method
hf	-123.22	kJ/mol	Joback Method
hfus	57.17	kJ/mol	Joback Method
hvap	80.69	kJ/mol	Joback Method
log10ws	-10.92		Crippen Method
logp	10.397		Crippen Method
mcvol	412.060	ml/mol	McGowan Method
pc	691.07	kPa	Joback Method
rinpol	2558.00		NIST Webbook
rinpol	2558.00		NIST Webbook
rinpol	2574.00		NIST Webbook
rinpol	2574.00		NIST Webbook
tb	897.32	K	Joback Method
tc	1099.61	K	Joback Method
tf	304.94	K	Joback Method
vc	1.603	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1347.52	J/molxK	897.32	Joback Method
cpg	1371.19	J/molxK	931.04	Joback Method
cpg	1393.90	J/molxK	964.75	Joback Method
cpg	1415.77	J/molxK	998.47	Joback Method
cpg	1436.93	J/molxK	1032.18	Joback Method

cpg	1457.51	J/mol×K	1065.90	Joback Method
cpg	1477.64	J/mol×K	1099.61	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=R501534&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R501534&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>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>rinpolar:</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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