

# 2,2,4a,6a,6b,9-Hexamethyl-1,2,3,4,4a,5,6,6a,6b,7,8,12b,13,14b-tetradecahydro-picene

Inchi:	InChI=1S/C28H40/c1-19-8-7-9-21-20(19)12-13-27(5)22(21)10-11-23-24-18-25(2,3)14-15
InchiKey:	LLJZJNHOHQEGE-UHFFFAOYSA-N
Formula:	C28H40
SMILES:	Cc1cccc2c1CCC1(C)C2CC=C2C3CC(C)(C)CCC3(C)CCC21C
Mol. weight [g/mol]:	376.62

## Physical Properties

Property code	Value	Unit	Source
gf	455.58	kJ/mol	Joback Method
hf	-74.51	kJ/mol	Joback Method
hfus	23.46	kJ/mol	Joback Method
hvap	77.59	kJ/mol	Joback Method
log10ws	-8.86		Crippen Method
logp	7.994		Crippen Method
mcvol	333.880	ml/mol	McGowan Method
pc	1231.15	kPa	Joback Method
rinsol	3013.08		NIST Webbook
tb	916.48	K	Joback Method
tc	1172.05	K	Joback Method
tf	614.86	K	Joback Method
vc	1.268	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1193.22	J/molxK	916.48	Joback Method
cpg	1232.78	J/molxK	959.07	Joback Method
cpg	1275.36	J/molxK	1001.67	Joback Method
cpg	1321.75	J/molxK	1044.26	Joback Method
cpg	1372.72	J/molxK	1086.86	Joback Method
cpg	1429.05	J/molxK	1129.45	Joback Method
cpg	1491.54	J/molxK	1172.05	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=U146457&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U146457&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>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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