

# C31-25-Norhopane, 17aH, 21bH, 22R

**Inchi:** InChI=1S/C30H52/c1-8-20(2)21-13-17-28(5)24(21)15-19-30(7)26(28)12-11-25-22-10-9-1  
**InchiKey:** WQHKTMBFSRNFHE-SQEMHNPQA-N  
**Formula:** C30H52  
**SMILES:** CCC(C)C1CCC2(C)C1CCC1(C)C2CCC2C3CCCC(C)(C)C3CCC21C  
**Mol. weight [g/mol]:** 412.73

## Physical Properties

Property code	Value	Unit	Source
gf	369.92	kJ/mol	Joback Method
hf	-381.51	kJ/mol	Joback Method
hfus	28.17	kJ/mol	Joback Method
hvap	76.43	kJ/mol	Joback Method
log10ws	-9.20		Crippen Method
logp	9.134		Crippen Method
mvol	379.260	ml/mol	McGowan Method
pc	932.35	kPa	Joback Method
rinpol	3144.00		NIST Webbook
rinpol	3144.00		NIST Webbook
tb	922.29	K	Joback Method
tc	1160.47	K	Joback Method
tf	555.84	K	Joback Method
vc	1.433	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1453.99	J/molxK	922.29	Joback Method
cpg	1496.72	J/molxK	961.99	Joback Method
cpg	1541.52	J/molxK	1001.68	Joback Method
cpg	1589.04	J/molxK	1041.38	Joback Method
cpg	1639.92	J/molxK	1081.08	Joback Method
cpg	1694.79	J/molxK	1120.78	Joback Method
cpg	1754.32	J/molxK	1160.47	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=R553545&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R553545&amp;Units=SI</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>hvp:</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>rinp:</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

Latest version available from:

<https://www.chemeo.com/cid/20-979-3/C31-25-Norhopane-17aH-21bH-22R.pdf>

Generated by Cheméo on 2024-04-23 18:58:42.716958821 +0000 UTC m=+16187971.637536133.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.