

# C33-25-Norhopane, 17aH, 21bH, 22S

**Inchi:** InChI=1S/C32H56/c1-8-9-11-22(2)23-15-19-30(5)26(23)17-21-32(7)28(30)14-13-27-24-1  
**InchiKey:** XCRHOWRYNNGKCR-DCDBGDEKSA-N  
**Formula:** C32H56  
**SMILES:** CCCCC(C)C1CCC2(C)C1CCC1(C)C2CCC2C3CCCC(C)(C)C3CCC21C  
**Mol. weight [g/mol]:** 440.79

## Physical Properties

Property code	Value	Unit	Source
gf	386.76	kJ/mol	Joback Method
hf	-422.79	kJ/mol	Joback Method
hfus	33.35	kJ/mol	Joback Method
hvap	80.89	kJ/mol	Joback Method
log10ws	-10.03		Crippen Method
logp	9.914		Crippen Method
mcvol	407.440	ml/mol	McGowan Method
pc	831.94	kPa	Joback Method
rinpol	3301.00		NIST Webbook
rinpol	3301.00		NIST Webbook
tb	968.05	K	Joback Method
tc	1203.22	K	Joback Method
tf	578.38	K	Joback Method
vc	1.546	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1605.16	J/molxK	968.05	Joback Method
cpg	1651.50	J/molxK	1007.24	Joback Method
cpg	1700.46	J/molxK	1046.44	Joback Method
cpg	1752.67	J/molxK	1085.63	Joback Method
cpg	1808.76	J/molxK	1124.83	Joback Method
cpg	1869.35	J/molxK	1164.02	Joback Method
cpg	1935.08	J/molxK	1203.22	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=R553654&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R553654&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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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