

# 17-«alpha»-H-Homohopane, 22(R)

**InChI:** InChI=1S/C31H54/c1-9-21(2)22-13-18-28(5)23(22)14-19-30(7)25(28)11-12-26-29(6)17-10-16-27(3,4)24(29)15-20-31(26,30)8/h21-26H,9-20H2,1-8H3/t21-,22?,23+,24?,25?,26?,28-,29-,30+,31+/m1/s1

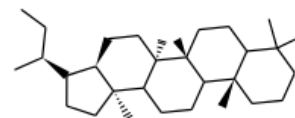
**InChI Key:** QFBGIDMRCNNMIW-QDANLNDOSA-N

**Formula:** C<sub>31</sub>H<sub>54</sub>

**SMILES:**

CCC(C)C1CCC2(C)C1CCC1(C)C2CCC2C3(C)CCCC(C)(C)C3CCC21C

**Molecular Weight:** 426.76



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	372.85	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-386.91	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	24.46	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	77.51	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	9.52		Crippen Method
$P_c$	903.97	kPa	Joback Method
$T_{\text{boil}}$	945.41	K	Joback Method
$T_c$	1186.91	K	Joback Method
$T_{\text{fus}}$	591.01	K	Joback Method
$V_c$	1.49	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	1530.77	J/mol×K	945.41	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**NIST Webbook:** [http://webbook.nist.gov/cgi/inchi/InChI=1S/C31H54/c1-9-21\(2\)22-13-18-28\(5\)23\(22\)14-19-30\(7\)25\(28\)11-12-26-29\(6\)17-10-16-27\(3,4\)24\(29\)15-20-31\(26,30\)8/h21-26H,9-20H2,1-8H3/t21-,22?,23+,24?,25?,26?,28-,29-,30+,31+/m1/s1](http://webbook.nist.gov/cgi/inchi/InChI=1S/C31H54/c1-9-21(2)22-13-18-28(5)23(22)14-19-30(7)25(28)11-12-26-29(6)17-10-16-27(3,4)24(29)15-20-31(26,30)8/h21-26H,9-20H2,1-8H3/t21-,22?,23+,24?,25?,26?,28-,29-,30+,31+/m1/s1)

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

$C_{p, gas}$ : Ideal gas heat capacity (J/mol×K).

$\Delta_f G^\circ$ : Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$ : Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$ : Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$ : Enthalpy of vaporization at standard conditions (kJ/mol).

$logP_{oct/wat}$ : Octanol/Water partition coefficient .

$P_c$ : Critical Pressure (kPa).

$T_{boil}$ : Normal Boiling Point Temperature (K).

$T_c$ : Critical Temperature (K).

$T_{fus}$ : Normal melting (fusion) point (K).

$V_c$ : Critical Volume (m<sup>3</sup>/kg-mol).

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