

# 22R-epi-17«beta»(H),21«beta»(H)-Hopanoic acid methyl ester

<b>Inchi:</b>	InChI=1S/C31H52O2/c1-20(26(32)33-8)21-12-17-28(4)22(21)13-18-30(6)24(28)10-11-25
<b>InchiKey:</b>	YUHMAGHEGZDPT-VKVPZFAZSA-N
<b>Formula:</b>	C31H52O2
<b>SMILES:</b>	COC(=O)C(C)C1CCC2(C)C1CCC1(C)C2CCC2C3(C)CCCC(C)(C)C3CCC21C
<b>Mol. weight [g/mol]:</b>	456.74

## Physical Properties

Property code	Value	Unit	Source
gf	138.93	kJ/mol	Joback Method
hf	-631.71	kJ/mol	Joback Method
hfus	27.25	kJ/mol	Joback Method
hvap	86.67	kJ/mol	Joback Method
log10ws	-8.48		Crippen Method
logp	8.287		Crippen Method
mvol	400.790	ml/mol	McGowan Method
pc	929.51	kPa	Joback Method
rinpol	3554.00		NIST Webbook
rinpol	3554.00		NIST Webbook
tb	1021.70	K	Joback Method
tc	1268.46	K	Joback Method
tf	663.17	K	Joback Method
vc	1.512	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1634.26	J/molxK	1021.70	Joback Method
cpg	1691.17	J/molxK	1062.83	Joback Method
cpg	1753.16	J/molxK	1103.95	Joback Method
cpg	1821.06	J/molxK	1145.08	Joback Method
cpg	1895.67	J/molxK	1186.21	Joback Method
cpg	1977.82	J/molxK	1227.33	Joback Method
cpg	2068.33	J/molxK	1268.46	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=R419044&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R419044&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>
<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>h vap:</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>r in pol:</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.cheméo.com/cid/29-825-4/22R-epi-17-beta-H-21-beta-H-Hopanoic-acid-methyl-ester.pdf>

Generated by Cheméo on 2024-04-25 21:58:21.646278167 +0000 UTC m=+16371550.566855479.

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