

# C27 17A-Hopane (Tm)

<b>Inchi:</b>	InChI=1S/C27H46/c1-23(2)14-8-16-25(4)20(23)13-18-27(6)22(25)11-10-21-24(3)15-7-9-
<b>InchiKey:</b>	WPKYQECPNNDJY-UHFFFAOYSA-N
<b>Formula:</b>	C27H46
<b>SMILES:</b>	CC1(C)CCCC2(C)C1CCC1(C)C2CCC2C3(C)CCCC3CCC21C
<b>Mol. weight [g/mol]:</b>	370.65

## Physical Properties

Property code	Value	Unit	Source
gf	349.32	kJ/mol	Joback Method
hf	-278.73	kJ/mol	Joback Method
hfus	16.56	kJ/mol	Joback Method
hvap	69.30	kJ/mol	Joback Method
log10ws	-8.42		Crippen Method
logp	8.252		Crippen Method
mvol	336.990	ml/mol	McGowan Method
pc	1175.24	kPa	Joback Method
rinpol	2895.00		NIST Webbook
tb	859.00	K	Joback Method
tc	1110.54	K	Joback Method
tf	565.17	K	Joback Method
vc	1.270	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1233.99	J/mol×K	859.00	Joback Method
cpg	1275.45	J/mol×K	900.92	Joback Method
cpg	1319.40	J/mol×K	942.85	Joback Method
cpg	1366.73	J/mol×K	984.77	Joback Method
cpg	1418.31	J/mol×K	1026.69	Joback Method
cpg	1475.05	J/mol×K	1068.61	Joback Method
cpg	1537.82	J/mol×K	1110.54	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=R56094&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R56094&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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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