

# 1H-3a,7-Methanoazulene, octahydro-1,4,9,9-tetramethyl-

Other names:	Patchoulane
Inchi:	InChI=1S/C15H26/c1-10-7-8-15-11(2)5-6-12(9-13(10)15)14(15,3)4/h10-13H,5-9H2,1-4H3
InchiKey:	MVZZUMCHPFHUOS-UHFFFAOYSA-N
Formula:	C15H26
SMILES:	CC1CCC23C(C)CCC(CC12)C3(C)C
Mol. weight [g/mol]:	206.37
CAS:	25491-20-7

## Physical Properties

Property code	Value	Unit	Source
gf	199.36	kJ/mol	Joback Method
hf	-177.39	kJ/mol	Joback Method
hfus	15.43	kJ/mol	Joback Method
hvap	45.84	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	4.495		Crippen Method
mcvol	189.630	ml/mol	McGowan Method
pc	2016.32	kPa	Joback Method
rinpol	1618.60		NIST Webbook
rinpol	1618.60		NIST Webbook
ripol	2060.00		NIST Webbook
ripol	1978.00		NIST Webbook
ripol	2060.00		NIST Webbook
tb	557.83	K	Joback Method
tc	780.06	K	Joback Method
tf	340.67	K	Joback Method
vc	0.724	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	522.52	J/molxK	557.83	Joback Method
cpg	547.59	J/molxK	594.87	Joback Method
cpg	570.94	J/molxK	631.91	Joback Method

cpg	592.86	J/mol×K	668.95	Joback Method
cpg	613.64	J/mol×K	705.99	Joback Method
cpg	633.54	J/mol×K	743.02	Joback Method
cpg	652.86	J/mol×K	780.06	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=C25491207&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C25491207&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>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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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