

# 1H-3a,7-Methanoazulene, octahydro-3,8,8-trimethyl-6-methylene-, [3R-(3«alpha»,3a«beta»,7«beta»,8a«alpha»)]-

Other names:

Cedr-8(15)-ene  
«beta»-Cedrene

(+)-«beta»-Cedrene

[3R-(3«alpha»,3a«beta»,7«beta»,8a«alpha»)]-octahydro-3,8,8-trimethyl-6-methylene-1H-

<b>Inchi:</b>	InChI=1S/C15H24/c1-10-7-8-15-9-12(10)14(3,4)13(15)6-5-11(15)2/h11-13H,1,5-9H2,2-4
<b>InchiKey:</b>	DYLPEFGBWGEFBB-KYEXWDHISA-N
<b>Formula:</b>	C15H24
<b>SMILES:</b>	C=C1CCC23CC1C(C)(C)C2CCC3C
<b>Mol. weight [g/mol]:</b>	204.35
<b>CAS:</b>	546-28-1

## Physical Properties

Property code	Value	Unit	Source
gf	260.15	kJ/mol	Joback Method
hf	-72.81	kJ/mol	Joback Method
hfus	13.20	kJ/mol	Joback Method
hvap	46.31	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	4.415		Crippen Method
mcvol	185.330	ml/mol	McGowan Method
pc	2113.89	kPa	Joback Method
rinpol	1418.00		NIST Webbook
rinpol	1423.00		NIST Webbook
rinpol	1423.00		NIST Webbook
rinpol	1420.00		NIST Webbook
rinpol	1420.00		NIST Webbook
rinpol	1410.00		NIST Webbook
rinpol	1424.00		NIST Webbook
rinpol	1422.00		NIST Webbook
rinpol	1421.00		NIST Webbook
rinpol	1418.00		NIST Webbook
rinpol	1421.00		NIST Webbook
rinpol	1413.00		NIST Webbook
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rinpol	1422.00		NIST Webbook

rinpol	1430.00	NIST Webbook
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ripol	1586.00		NIST Webbook
ripol	1633.00		NIST Webbook
ripol	1648.00		NIST Webbook
ripol	1605.00		NIST Webbook
ripol	1638.00		NIST Webbook
ripol	1573.00		NIST Webbook
ripol	1599.00		NIST Webbook
tb	561.66	K	Joback Method
tc	785.91	K	Joback Method
tf	358.59	K	Joback Method
vc	0.709	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	501.94	J/mol×K	561.66	Joback Method
cpg	525.20	J/mol×K	599.03	Joback Method
cpg	546.85	J/mol×K	636.41	Joback Method
cpg	567.18	J/mol×K	673.78	Joback Method
cpg	586.48	J/mol×K	711.16	Joback Method
cpg	605.02	J/mol×K	748.53	Joback Method
cpg	623.10	J/mol×K	785.91	Joback Method

# Sources

<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>
<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=C546281&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C546281&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>mccvol:</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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