

# Aromandendrene

**Other names:**

1H-Cycloprop[e]azulene, decahydro-1,1,7-trimethyl-4-methylene-,  
[1aR-(1a«alpha»,4a«alpha»,7«alpha»,7a«beta»,7b«alpha»)]-  
1H-Cycloprop[e]azulene, decahydro-1,1,7-trimethyl-4-methylene-,  
(1aR,4aR,7R,7aR,7bS)-(+)-1,1,7-Trimethyl-4-methylenedeca-1H-cyclopropa[e]azulene  
Aromadendr-7(15)-ene  
(+)-Aromadendrene  
Aromadendrene, (+)-

**Inchi:**

1,1,7-Trimethyl-4-methylenedeca-1H-cyclopropa[e]azulene-,  
[1aR-(1a«alpha»,4a«alpha»,7«alpha»,7a«beta»,7b«alpha»)]-  
decahydro-1,1,7-trimethyl-

**InchiKey:**

ITYNGVSTWVVIC-UHFFFAOYSA-N

**Formula:**

C15H24

**SMILES:**

C=C1CCC2C(C3C(C)CCC13)C2(C)C

**Mol. weight [g/mol]:**

204.35

**CAS:**

489-39-4

## Physical Properties

Property code	Value	Unit	Source
gf	257.93	kJ/mol	Joback Method
hf	-108.39	kJ/mol	Joback Method
hfus	20.57	kJ/mol	Joback Method
hvap	47.15	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	4.271		Crippen Method
mcvol	185.330	ml/mol	McGowan Method
pc	1970.05	kPa	Joback Method
rinpol	1455.00		NIST Webbook
rinpol	1440.00		NIST Webbook
rinpol	1439.00		NIST Webbook
rinpol	1441.00		NIST Webbook
rinpol	1439.00		NIST Webbook
rinpol	1436.00		NIST Webbook
rinpol	1447.00		NIST Webbook
rinpol	1455.00		NIST Webbook
rinpol	1447.00		NIST Webbook
ripol	1635.00		NIST Webbook
ripol	1637.00		NIST Webbook
ripol	1622.00		NIST Webbook

ripol	1637.00		NIST Webbook
tb	535.50 ± 2.50	K	NIST Webbook
tc	772.11	K	Joback Method
tf	330.45	K	Joback Method
vc	0.710	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	503.38	J/mol×K	556.75	Joback Method
cpg	527.20	J/mol×K	592.64	Joback Method
cpg	549.51	J/mol×K	628.54	Joback Method
cpg	570.48	J/mol×K	664.43	Joback Method
cpg	590.26	J/mol×K	700.32	Joback Method
cpg	609.03	J/mol×K	736.21	Joback Method
cpg	626.94	J/mol×K	772.11	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=C489394&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C489394&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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