

# Dehydroaromadendrene

<b>Other names:</b>	Dehydroaromadendrane Aromadendr-9-ene 9,10-Aromadendrene (1a«alpha»,4a«alpha»,7«alpha»,7a«beta»,7b«alpha»)-(-)-1a,2,4a,5,6,7,7a,7b-octahydro
<b>Inchi:</b>	InChI=1S/C15H24/c1-9-6-8-12-14(15(12,3)4)13-10(2)5-7-11(9)13/h6,10-14H,5,7-8H2,1-4
<b>InchiKey:</b>	DJAYTQZJAJXFDU-DGOFFYKESA-N
<b>Formula:</b>	C15H24
<b>SMILES:</b>	CC1=CCC2C(C3C(C)CCC13)C2(C)C
<b>Mol. weight [g/mol]:</b>	204.35
<b>CAS:</b>	85048-01-7

## Physical Properties

Property code	Value	Unit	Source
gf	225.18	kJ/mol	Joback Method
hf	-146.32	kJ/mol	Joback Method
hfus	22.56	kJ/mol	Joback Method
hvap	47.94	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	4.271		Crippen Method
mcvol	185.330	ml/mol	McGowan Method
pc	1973.55	kPa	Joback Method
rinpol	1434.00		NIST Webbook
rinpol	1463.00		NIST Webbook
rinpol	1471.00		NIST Webbook
rinpol	1459.00		NIST Webbook
rinpol	1441.00		NIST Webbook
rinpol	1456.00		NIST Webbook
rinpol	1489.00		NIST Webbook
rinpol	1493.00		NIST Webbook
rinpol	1457.00		NIST Webbook
rinpol	1459.00		NIST Webbook
rinpol	1444.00		NIST Webbook
rinpol	1455.00		NIST Webbook
rinpol	1479.00		NIST Webbook
rinpol	1462.00		NIST Webbook
rinpol	1459.00		NIST Webbook
rinpol	1456.00		NIST Webbook

rropol	1442.00		NIST Webbook
rropol	1450.00		NIST Webbook
tb	561.73	K	Joback Method
tc	778.35	K	Joback Method
tf	330.05	K	Joback Method
vc	0.712	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	505.21	J/mol×K	561.73	Joback Method
cpg	528.79	J/mol×K	597.83	Joback Method
cpg	550.88	J/mol×K	633.94	Joback Method
cpg	571.64	J/mol×K	670.04	Joback Method
cpg	591.24	J/mol×K	706.14	Joback Method
cpg	609.85	J/mol×K	742.24	Joback Method
cpg	627.64	J/mol×K	778.35	Joback Method

## Sources

<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=C85048017&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C85048017&amp;Units=SI</a>
<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>

## 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>hvp:</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>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.chemeo.com/cid/44-321-6/Dehydroaromadendrene.pdf>

Generated by Cheméo on 2024-04-24 09:43:21.398765763 +0000 UTC m=+16241050.319343079.

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