

# Carota-5,8-diene

<b>Other names:</b>	Dauca-5,8-diene
<b>Inchi:</b>	InChI=1S/C15H24/c1-11(2)13-8-10-15(4)9-7-12(3)5-6-14(13)15/h7-14H,5-6H2,1-4H3/t12
<b>InchiKey:</b>	BHIHXZLMEISNSN-OOJKYFRXSA-N
<b>Formula:</b>	C15H24
<b>SMILES:</b>	CC1C=CC2(C)C=CC(C(C)C)C2CC1
<b>Mol. weight [g/mol]:</b>	204.35
<b>CAS:</b>	142928-08-3

## Physical Properties

Property code	Value	Unit	Source
gf	185.09	kJ/mol	Joback Method
hf	-147.13	kJ/mol	Joback Method
hfus	17.24	kJ/mol	Joback Method
hvap	47.92	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	4.437		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	1994.77	kPa	Joback Method
rinpol	1465.00		NIST Webbook
rinpol	1468.00		NIST Webbook
ripol	1654.00		NIST Webbook
tb	561.94	K	Joback Method
tc	783.86	K	Joback Method
tf	282.55	K	Joback Method
vc	0.720	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.82	J/molxK	561.94	Joback Method
cpg	524.76	J/molxK	598.93	Joback Method
cpg	547.17	J/molxK	635.91	Joback Method
cpg	568.22	J/molxK	672.90	Joback Method
cpg	588.04	J/molxK	709.89	Joback Method

cpg	606.79	J/mol×K	746.87	Joback Method
cpg	624.63	J/mol×K	783.86	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=C142928083&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C142928083&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>
<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>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>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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