

# Daucene

<b>Other names:</b>	Dauca-4,8-diene (Daucene)
<b>Inchi:</b>	InChI=1S/C15H24/c1-11(2)13-8-10-15(4)9-7-12(3)5-6-14(13)15/h7,11H,5-6,8-10H2,1-4H
<b>InchiKey:</b>	MGMBZNCFUFRSSP-UHFFFAOYSA-N
<b>Formula:</b>	C15H24
<b>SMILES:</b>	CC1=CCC2(C)CCC(C(C)C)=C2CC1
<b>Mol. weight [g/mol]:</b>	204.35
<b>CAS:</b>	16661-00-0

## Physical Properties

Property code	Value	Unit	Source
gf	179.33	kJ/mol	Joback Method
hf	-120.52	kJ/mol	Joback Method
hfus	12.86	kJ/mol	Joback Method
hvap	50.84	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.869		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	2094.58	kPa	Joback Method
rinpol	1379.00		NIST Webbook
rinpol	1380.00		NIST Webbook
rinpol	1378.00		NIST Webbook
rinpol	1382.00		NIST Webbook
rinpol	1381.00		NIST Webbook
rinpol	1380.00		NIST Webbook
rinpol	1380.00		NIST Webbook
rinpol	1358.00		NIST Webbook
rinpol	1380.00		NIST Webbook
rinpol	1382.00		NIST Webbook
rinpol	1380.00		NIST Webbook
rinpol	1384.00		NIST Webbook
rinpol	1380.00		NIST Webbook
rinpol	1385.30		NIST Webbook
rinpol	1380.00		NIST Webbook
rinpol	1384.00		NIST Webbook
rinpol	1387.00		NIST Webbook
rinpol	1380.00		NIST Webbook
rinpol	1370.00		NIST Webbook

rinpol	1382.00		NIST Webbook
rinpol	1378.00		NIST Webbook
rinpol	1370.00		NIST Webbook
rinpol	1370.00		NIST Webbook
rinpol	1377.00		NIST Webbook
rinpol	1382.00		NIST Webbook
rinpol	1379.00		NIST Webbook
rinpol	1384.00		NIST Webbook
rinpol	1381.00		NIST Webbook
rinpol	1364.00		NIST Webbook
rinpol	1381.00		NIST Webbook
rinpol	1381.00		NIST Webbook
rinpol	1385.30		NIST Webbook
rinpol	1379.00		NIST Webbook
rinpol	1379.00		NIST Webbook
rinpol	1380.00		NIST Webbook
ripol	1504.00		NIST Webbook
ripol	1495.00		NIST Webbook
ripol	1487.00		NIST Webbook
ripol	1504.00		NIST Webbook
ripol	1504.00		NIST Webbook
ripol	1486.00		NIST Webbook
ripol	1487.00		NIST Webbook
tb	590.89	K	Joback Method
tc	815.98	K	Joback Method
tf	332.83	K	Joback Method
vc	0.723	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.51	J/mol×K	590.89	Joback Method
cpg	521.85	J/mol×K	628.41	Joback Method
cpg	541.90	J/mol×K	665.92	Joback Method
cpg	560.83	J/mol×K	703.44	Joback Method
cpg	578.78	J/mol×K	740.95	Joback Method
cpg	595.93	J/mol×K	778.47	Joback Method
cpg	612.42	J/mol×K	815.98	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=C16661000&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16661000&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>h vap:</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>m cvol:</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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