

# 8,10-Dodecadien-1-ol

<b>Other names:</b>	(8E,10E)-dodeca-8,10-dien-1-ol (E,E)-8,10-dodecadien-1-ol 8,10-Dodecadienol codlemone dodeca-8,10-dienol trans-trans-8,10-dodecadien-1-ol
<b>Inchi:</b>	InChI=1S/C12H22O/c1-2-3-4-5-6-7-8-9-10-11-12-13/h2-5,13H,6-12H2,1H3/b3-2+,5-4+
<b>InchiKey:</b>	CSWBSLXBXRFNST-MQQKCMAXSA-N
<b>Formula:</b>	C12H22O
<b>SMILES:</b>	CC=CC=CCCCCCCCO
<b>Mol. weight [g/mol]:</b>	182.30
<b>CAS:</b>	57002-06-9

## Physical Properties

Property code	Value	Unit	Source
gf	73.78	kJ/mol	Joback Method
hf	-208.80	kJ/mol	Joback Method
hfus	31.33	kJ/mol	Joback Method
hvap	58.90	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.452		Crippen Method
mcvol	177.210	ml/mol	McGowan Method
pc	2115.83	kPa	Joback Method
rinpol	1475.00		NIST Webbook
rinpol	1475.00		NIST Webbook
tb	574.46	K	Joback Method
tc	743.60	K	Joback Method
tf	275.66	K	Joback Method
vc	0.686	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	440.36	J/molxK	574.46	Joback Method

cpg	454.17	J/molxK	602.65	Joback Method
cpg	467.34	J/molxK	630.84	Joback Method
cpg	479.91	J/molxK	659.03	Joback Method
cpg	491.91	J/molxK	687.22	Joback Method
cpg	503.37	J/molxK	715.41	Joback Method
cpg	514.31	J/molxK	743.60	Joback Method
dvisc	0.0214404	Paxs	275.66	Joback Method
dvisc	0.0038100	Paxs	325.46	Joback Method
dvisc	0.0010709	Paxs	375.26	Joback Method
dvisc	0.0004053	Paxs	425.06	Joback Method
dvisc	0.0001880	Paxs	474.86	Joback Method
dvisc	0.0001009	Paxs	524.66	Joback Method
dvisc	0.0000604	Paxs	574.46	Joback Method
hvapt	92.30	kJ/mol	298.15	Vapor pressures and vaporization enthalpy of codlemone by correlation gas chromatography

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C57002069&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C57002069&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>Vapor pressures and vaporization enthalpy of codlemone by correlation gas chromatography:</b>	<a href="https://www.doi.org/10.1016/j.jct.2015.06.002">https://www.doi.org/10.1016/j.jct.2015.06.002</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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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

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