

# 2,2-Dimethyldeca-3,4-diene

<b>Inchi:</b>	InChI=1S/C12H22/c1-5-6-7-8-9-10-11-12(2,3)4/h9,11H,5-8H2,1-4H3
<b>InchiKey:</b>	RLYOJWAFNPKWRK-UHFFFAOYSA-N
<b>Formula:</b>	C12H22
<b>SMILES:</b>	CCCCC=C=CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	166.30
<b>CAS:</b>	121959-79-3

## Physical Properties

Property code	Value	Unit	Source
gf	261.50	kJ/mol	Joback Method
hf	-19.76	kJ/mol	Joback Method
hfus	21.75	kJ/mol	Joback Method
hvap	41.40	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	4.324		Crippen Method
mcvol	171.340	ml/mol	McGowan Method
pc	2053.03	kPa	Joback Method
tb	478.16	K	Joback Method
tc	666.58	K	Joback Method
tf	228.85	K	Joback Method
vc	0.656	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.17	J/molxK	478.16	Joback Method
cpg	397.66	J/molxK	509.56	Joback Method
cpg	414.28	J/molxK	540.97	Joback Method
cpg	430.06	J/molxK	572.37	Joback Method
cpg	445.05	J/molxK	603.78	Joback Method
cpg	459.28	J/molxK	635.18	Joback Method
cpg	472.77	J/molxK	666.58	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=C121959793&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C121959793&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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/70-326-2/2-2-Dimethyldeca-3-4-diene.pdf>

Generated by Cheméo on 2024-04-26 21:43:59.195210359 +0000 UTC m=+16457088.115787681.

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