

# 2,4,6,10-Dodecatetraene

<b>Inchi:</b>	InChI=1S/C12H18/c1-3-5-7-9-11-12-10-8-6-4-2/h3-7,9,11-12H,8,10H2,1-2H3/b5-3+,6-4+
<b>InchiKey:</b>	FQMSKVLEYYJMON-YXDPKGGVSA-N
<b>Formula:</b>	C12H18
<b>SMILES:</b>	CC=CC=CC=CCCC=CC
<b>Mol. weight [g/mol]:</b>	162.27

## Physical Properties

Property code	Value	Unit	Source
gf	371.04	kJ/mol	Joback Method
hf	177.87	kJ/mol	Joback Method
hfus	27.64	kJ/mol	Joback Method
hvap	42.14	kJ/mol	Joback Method
log10ws	-4.26		Crippen Method
logp	4.031		Crippen Method
mcvol	162.740	ml/mol	McGowan Method
pc	2139.38	kPa	Joback Method
rinpol	1321.00		NIST Webbook
rinpol	1324.00		NIST Webbook
tb	490.60	K	Joback Method
tc	682.67	K	Joback Method
tf	204.68	K	Joback Method
vc	0.627	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	341.52	J/molxK	490.60	Joback Method
cpg	357.35	J/molxK	522.61	Joback Method
cpg	372.23	J/molxK	554.62	Joback Method
cpg	386.22	J/molxK	586.63	Joback Method
cpg	399.40	J/molxK	618.65	Joback Method
cpg	411.83	J/molxK	650.66	Joback Method
cpg	423.57	J/molxK	682.67	Joback Method
dvisc	0.0049325	Paxs	204.68	Joback Method

dvisc	0.0014256	Paxs	252.33	Joback Method
dvisc	0.0006112	Paxs	299.99	Joback Method
dvisc	0.0003305	Paxs	347.64	Joback Method
dvisc	0.0002073	Paxs	395.29	Joback Method
dvisc	0.0001437	Paxs	442.95	Joback Method
dvisc	0.0001070	Paxs	490.60	Joback Method

## Sources

<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=R61013&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R61013&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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