

# Dodecane, 2,6,10-trimethyl-

<b>Other names:</b>	Farnesan Farnesane 2,6,10-Trimethyldodecane
<b>Inchi:</b>	InChI=1S/C15H32/c1-6-14(4)10-8-12-15(5)11-7-9-13(2)3/h13-15H,6-12H2,1-5H3
<b>InchiKey:</b>	YFHFHLSMISYUQA-UHFFFAOYSA-N
<b>Formula:</b>	C15H32
<b>SMILES:</b>	CCC(C)CCCC(C)CCCC(C)C
<b>Mol. weight [g/mol]:</b>	212.41
<b>CAS:</b>	3891-98-3

## Physical Properties

Property code	Value	Unit	Source
gf	68.10	kJ/mol	Joback Method
hf	-368.77	kJ/mol	Joback Method
hfus	24.04	kJ/mol	Joback Method
hvap	47.82	kJ/mol	Joback Method
log10ws	-5.38		Crippen Method
logp	5.665		Crippen Method
mcvol	222.210	ml/mol	McGowan Method
pc	1441.35	kPa	Joback Method
rinpol	1366.00		NIST Webbook
rinpol	1360.30		NIST Webbook
rinpol	1392.00		NIST Webbook
rinpol	1392.00		NIST Webbook
rinpol	1376.00		NIST Webbook
rinpol	1379.00		NIST Webbook
rinpol	1364.00		NIST Webbook
rinpol	1365.00		NIST Webbook
rinpol	1379.00		NIST Webbook
rinpol	1366.00		NIST Webbook
rinpol	1366.00		NIST Webbook
rinpol	1369.00		NIST Webbook
rinpol	1368.00		NIST Webbook
rinpol	1358.00		NIST Webbook
rinpol	1363.00		NIST Webbook
rinpol	1365.00		NIST Webbook
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rinpol	1369.00		NIST Webbook
rinpol	1381.00		NIST Webbook
rinpol	1376.00		NIST Webbook
rinpol	1379.00		NIST Webbook
rinpol	1378.00		NIST Webbook
rinpol	1379.00		NIST Webbook
rinpol	1365.00		NIST Webbook
rinpol	1378.00		NIST Webbook
rinpol	1365.00		NIST Webbook
rinpol	1382.00		NIST Webbook
rinpol	1374.00		NIST Webbook
rinpol	1379.00		NIST Webbook
rinpol	1358.00		NIST Webbook
rinpol	1368.00		NIST Webbook
ripol	1362.00		NIST Webbook
ripol	1344.00		NIST Webbook
ripol	1350.00		NIST Webbook
ripol	1354.00		NIST Webbook
ripol	1360.00		NIST Webbook
tb	525.10 ± 0.50	K	NIST Webbook
tc	708.78	K	Joback Method
tf	213.81	K	Joback Method
vc	0.858	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	558.60	J/mol×K	541.28	Joback Method
cpg	649.78	J/mol×K	680.87	Joback Method
cpg	633.08	J/mol×K	652.95	Joback Method
cpg	615.63	J/mol×K	625.03	Joback Method
cpg	597.41	J/mol×K	597.11	Joback Method
cpg	578.41	J/mol×K	569.20	Joback Method
cpg	665.77	J/mol×K	708.78	Joback Method
dvisc	0.0001394	Paxs	541.28	Joback Method
dvisc	0.0002040	Paxs	486.70	Joback Method
dvisc	0.0003285	Paxs	432.12	Joback Method

dvisc	0.0006072	Paxs	377.54	Joback Method
dvisc	0.0013813	Paxs	322.97	Joback Method
dvisc	0.0043898	Paxs	268.39	Joback Method
dvisc	0.0251735	Paxs	213.81	Joback Method

## Sources

<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=C3891983&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3891983&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>

## 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>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>rinpola:</b>	Non-polar retention indices
<b>ripola:</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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