

# 1-Dodecanol, 3,7,11-trimethyl-

<b>Other names:</b>	Hexa-hydro-farnesol 3,7,11-Trimethyl-1-dodecanol
<b>Inchi:</b>	InChI=1S/C15H32O/c1-13(2)7-5-8-14(3)9-6-10-15(4)11-12-16/h13-16H,5-12H2,1-4H3
<b>InchiKey:</b>	HDPUXESLSOZSIB-UHFFFAOYSA-N
<b>Formula:</b>	C15H32O
<b>SMILES:</b>	CC(C)CCCC(C)CCCC(C)CCO
<b>Mol. weight [g/mol]:</b>	228.41
<b>CAS:</b>	6750-34-1

## Physical Properties

Property code	Value	Unit	Source
gf	-68.72	kJ/mol	Joback Method
hf	-521.00	kJ/mol	Joback Method
hfus	28.13	kJ/mol	Joback Method
hvap	64.50	kJ/mol	Joback Method
log10ws	-4.64		Crippen Method
logp	4.638		Crippen Method
mcvol	228.080	ml/mol	McGowan Method
pc	1547.57	kPa	Joback Method
rinpola	1576.00		NIST Webbook
rinpola	1563.00		NIST Webbook
rinpola	1571.00		NIST Webbook
tb	633.46	K	Joback Method
tc	797.99	K	Joback Method
tf	274.63	K	Joback Method
vc	0.876	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	638.08	J/molxK	633.46	Joback Method
cpg	655.20	J/molxK	660.88	Joback Method
cpg	671.58	J/molxK	688.30	Joback Method
cpg	687.26	J/molxK	715.72	Joback Method

cpg	702.26	J/molxK	743.14	Joback Method
cpg	716.59	J/molxK	770.56	Joback Method
cpg	730.28	J/molxK	797.99	Joback Method
dvisc	0.0616129	Paxs	274.63	Joback Method
dvisc	0.0060828	Paxs	334.44	Joback Method
dvisc	0.0012123	Paxs	394.24	Joback Method
dvisc	0.0003695	Paxs	454.05	Joback Method
dvisc	0.0001485	Paxs	513.85	Joback Method
dvisc	0.0000722	Paxs	573.65	Joback Method
dvisc	0.0000402	Paxs	633.46	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=C6750341&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6750341&amp;Units=SI</a>
<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>

## 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>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

Latest version available from:

<https://www.cheméo.com/cid/75-157-5/1-Dodecanol-3-7-11-trimethyl.pdf>

Generated by Cheméo on 2024-04-24 19:55:30.148742108 +0000 UTC m=+16277779.069319419.

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