

# 1-Dodecene, 4-ethyl

<b>Inchi:</b>	InChI=1S/C14H28/c1-4-7-8-9-10-11-13-14(6-3)12-5-2/h5,14H,2,4,6-13H2,1,3H3
<b>InchiKey:</b>	QLQXRNOFPBTBOL-UHFFFAOYSA-N
<b>Formula:</b>	C14H28
<b>SMILES:</b>	C=CCC(CC)CCCCCCCC
<b>Mol. weight [g/mol]:</b>	196.37

## Physical Properties

Property code	Value	Unit	Source
gf	152.40	kJ/mol	Joback Method
hf	-212.14	kJ/mol	Joback Method
hfus	27.21	kJ/mol	Joback Method
hvap	45.70	kJ/mol	Joback Method
log10ws	-5.29		Crippen Method
logp	5.339		Crippen Method
mcvol	203.820	ml/mol	McGowan Method
pc	1584.75	kPa	Joback Method
rinsol	1342.00		NIST Webbook
tb	515.96	K	Joback Method
tc	681.17	K	Joback Method
tf	230.78	K	Joback Method
vc	0.794	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	486.73	J/molxK	515.96	Joback Method
cpg	504.78	J/molxK	543.49	Joback Method
cpg	522.09	J/molxK	571.03	Joback Method
cpg	538.70	J/molxK	598.56	Joback Method
cpg	554.62	J/molxK	626.10	Joback Method
cpg	569.86	J/molxK	653.63	Joback Method
cpg	584.47	J/molxK	681.17	Joback Method
dvisc	0.0081794	Paxs	230.78	Joback Method
dvisc	0.0025008	Paxs	278.31	Joback Method

dvisc	0.0010804	Paxs	325.84	Joback Method
dvisc	0.0005779	Paxs	373.37	Joback Method
dvisc	0.0003561	Paxs	420.90	Joback Method
dvisc	0.0002420	Paxs	468.43	Joback Method
dvisc	0.0001766	Paxs	515.96	Joback Method

## Sources

<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>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=R46865&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R46865&amp;Units=SI</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

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