

# 1-Decene, 4-ethyl

<b>Inchi:</b>	InChI=1S/C12H24/c1-4-7-8-9-11-12(6-3)10-5-2/h5,12H,2,4,6-11H2,1,3H3
<b>InchiKey:</b>	YRVRPNGIWJYHPQ-UHFFFAOYSA-N
<b>Formula:</b>	C12H24
<b>SMILES:</b>	C=CCC(CC)CCCCC
<b>Mol. weight [g/mol]:</b>	168.32

## Physical Properties

Property code	Value	Unit	Source
gf	135.56	kJ/mol	Joback Method
hf	-170.86	kJ/mol	Joback Method
hfus	22.03	kJ/mol	Joback Method
hvap	41.25	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	4.559		Crippen Method
mcvol	175.640	ml/mol	McGowan Method
pc	1857.91	kPa	Joback Method
rinpol	1144.00		NIST Webbook
rinpol	1144.00		NIST Webbook
tb	470.20	K	Joback Method
tc	637.46	K	Joback Method
tf	208.24	K	Joback Method
vc	0.682	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	389.11	J/mol×K	470.20	Joback Method
cpg	405.84	J/mol×K	498.08	Joback Method
cpg	421.88	J/mol×K	525.95	Joback Method
cpg	437.28	J/mol×K	553.83	Joback Method
cpg	452.04	J/mol×K	581.70	Joback Method
cpg	466.18	J/mol×K	609.58	Joback Method
cpg	479.73	J/mol×K	637.46	Joback Method
dvisc	0.0089547	Paxs	208.24	Joback Method

dvisc	0.0027624	Paxs	251.90	Joback Method
dvisc	0.0012062	Paxs	295.56	Joback Method
dvisc	0.0006519	Paxs	339.22	Joback Method
dvisc	0.0004054	Paxs	382.88	Joback Method
dvisc	0.0002779	Paxs	426.54	Joback Method
dvisc	0.0002043	Paxs	470.20	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=R46794&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R46794&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>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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