

# Tetradecene

<b>Inchi:</b>	InChI=1S/C14H28/c1-3-5-7-9-11-13-14-12-10-8-6-4-2/h3H,1,4-14H2,2H3
<b>InchiKey:</b>	HFDVRLIODXPAHB-UHFFFAOYSA-N
<b>Formula:</b>	C14H28
<b>SMILES:</b>	C=CCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	196.37
<b>CAS:</b>	26952-13-6

## Physical Properties

Property code	Value	Unit	Source
gf	154.84	kJ/mol	Joback Method
hf	-206.86	kJ/mol	Joback Method
hfus	30.74	kJ/mol	Joback Method
hvap	46.09	kJ/mol	Joback Method
log10ws	-5.54		Crippen Method
logp	5.483		Crippen Method
mcvol	203.820	ml/mol	McGowan Method
pc	1574.70	kPa	Joback Method
rinpol	1392.00		NIST Webbook
rinpol	1395.00		NIST Webbook
rinpol	1412.00		NIST Webbook
rinpol	1381.00		NIST Webbook
rinpol	1381.00		NIST Webbook
ripol	1414.00		NIST Webbook
ripol	1414.00		NIST Webbook
tb	516.40	K	Joback Method
tc	678.61	K	Joback Method
tf	245.78	K	Joback Method
vc	0.800	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	486.57	J/molxK	516.40	Joback Method
cpg	504.23	J/molxK	543.43	Joback Method

cpg	521.19	J/mol×K	570.47	Joback Method
cpg	537.47	J/mol×K	597.50	Joback Method
cpg	553.09	J/mol×K	624.54	Joback Method
cpg	568.07	J/mol×K	651.57	Joback Method
cpg	582.43	J/mol×K	678.61	Joback Method
dvisc	0.0052502	Paxs	245.78	Joback Method
dvisc	0.0019579	Paxs	290.88	Joback Method
dvisc	0.0009515	Paxs	335.99	Joback Method
dvisc	0.0005486	Paxs	381.09	Joback Method
dvisc	0.0003554	Paxs	426.19	Joback Method
dvisc	0.0002501	Paxs	471.30	Joback Method
dvisc	0.0001872	Paxs	516.40	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C26952136&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C26952136&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>
<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>

## 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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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