

# 3-Tetradecen-5-yne, (E)-

<b>Inchi:</b>	InChI=1S/C14H24/c1-3-5-7-9-11-13-14-12-10-8-6-4-2/h5,7H,3-4,6,8,10,12-14H2,1-2H3/b
<b>InchiKey:</b>	WUQYQRGBUVKLJX-FNORWQNLSA-N
<b>Formula:</b>	C14H24
<b>SMILES:</b>	CCC=CC#CCCCCCCCC
<b>Mol. weight [g/mol]:</b>	192.34
<b>CAS:</b>	74744-44-8

## Physical Properties

Property code	Value	Unit	Source
gf	350.02	kJ/mol	Joback Method
hf	57.23	kJ/mol	Joback Method
hfus	35.34	kJ/mol	Joback Method
hvap	48.87	kJ/mol	Joback Method
log10ws	-5.33		Crippen Method
logp	4.707		Crippen Method
mcvol	195.220	ml/mol	McGowan Method
pc	1810.77	kPa	Joback Method
tb	532.88	K	Joback Method
tc	718.06	K	Joback Method
tf	348.56	K	Joback Method
vc	0.761	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	455.52	J/molxK	532.88	Joback Method
cpg	473.05	J/molxK	563.74	Joback Method
cpg	489.78	J/molxK	594.61	Joback Method
cpg	505.73	J/molxK	625.47	Joback Method
cpg	520.95	J/molxK	656.33	Joback Method
cpg	535.46	J/molxK	687.19	Joback Method
cpg	549.29	J/molxK	718.06	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=C74744448&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C74744448&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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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