

# 2-Methyltetradecan-4-one

<b>Inchi:</b>	InChI=1S/C15H30O/c1-4-5-6-7-8-9-10-11-12-15(16)13-14(2)3/h14H,4-13H2,1-3H3
<b>InchiKey:</b>	YVVVNAZSGGAAPW-UHFFFAOYSA-N
<b>Formula:</b>	C15H30O
<b>SMILES:</b>	CCCCCCCCCCC(=O)CC(C)C
<b>Mol. weight [g/mol]:</b>	226.40

## Physical Properties

Property code	Value	Unit	Source
gf	-55.94	kJ/mol	Joback Method
hf	-470.79	kJ/mol	Joback Method
hfus	32.68	kJ/mol	Joback Method
hvap	55.34	kJ/mol	Joback Method
log10ws	-5.14		Crippen Method
logp	5.132		Crippen Method
mcvol	223.780	ml/mol	McGowan Method
pc	1494.19	kPa	Joback Method
rinpol	1628.00		NIST Webbook
rinpol	1628.00		NIST Webbook
tb	596.03	K	Joback Method
tc	766.03	K	Joback Method
tf	293.74	K	Joback Method
vc	0.875	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	590.88	J/molxK	596.03	Joback Method
cpg	608.88	J/molxK	624.36	Joback Method
cpg	626.10	J/molxK	652.70	Joback Method
cpg	642.57	J/molxK	681.03	Joback Method
cpg	658.31	J/molxK	709.36	Joback Method
cpg	673.35	J/molxK	737.70	Joback Method
cpg	687.70	J/molxK	766.03	Joback Method
dvisc	0.0052077	Paxs	293.74	Joback Method

dvisc	0.0019153	Paxs	344.12	Joback Method
dvisc	0.0009095	Paxs	394.50	Joback Method
dvisc	0.0005112	Paxs	444.88	Joback Method
dvisc	0.0003231	Paxs	495.27	Joback Method
dvisc	0.0002222	Paxs	545.65	Joback Method
dvisc	0.0001629	Paxs	596.03	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=R508837&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R508837&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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