

# 3-Decen-1-yne, (E)-

<b>Inchi:</b>	InChI=1S/C10H16/c1-3-5-7-9-10-8-6-4-2/h1,5,7H,4,6,8-10H2,2H3/b7-5+
<b>InchiKey:</b>	OMLUZGAUTCIZLU-FNORWQNLSA-N
<b>Formula:</b>	C10H16
<b>SMILES:</b>	C#CC=CCCCCCC
<b>Mol. weight [g/mol]:</b>	136.23
<b>CAS:</b>	2807-10-5

## Physical Properties

Property code	Value	Unit	Source
gf	336.61	kJ/mol	Joback Method
hf	159.39	kJ/mol	Joback Method
hfus	24.83	kJ/mol	Joback Method
hvap	37.67	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	3.146		Crippen Method
mcvol	138.860	ml/mol	McGowan Method
pc	2555.92	kPa	Joback Method
tb	422.48	K	Joback Method
tc	604.51	K	Joback Method
tf	244.35	K	Joback Method
vc	0.537	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.15	J/molxK	422.48	Joback Method
cpg	284.94	J/molxK	452.82	Joback Method
cpg	298.06	J/molxK	483.16	Joback Method
cpg	310.54	J/molxK	513.49	Joback Method
cpg	322.41	J/molxK	543.83	Joback Method
cpg	333.70	J/molxK	574.17	Joback Method
cpg	344.43	J/molxK	604.51	Joback Method

# Sources

<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=C2807105&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2807105&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>

# 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>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>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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