

# (Z)-8-decen-4,6-diyn-1-yl 3-methylbutanoate

Inchi:	InChI=1S/C15H20O2/c1-4-5-6-7-8-9-10-11-12-17-15(16)13-14(2)3/h4-5,14H,10-13H2,1-3H
InchiKey:	KWRUHFUXFNAAJG-PLNGDYQASA-N
Formula:	C15H20O2
SMILES:	CC=CC#CC#CCCCOC(=O)CC(C)C
Mol. weight [g/mol]:	232.32
CAS:	126693-81-0

## Physical Properties

Property code	Value	Unit	Source
gf	324.88	kJ/mol	Joback Method
hf	58.81	kJ/mol	Joback Method
hfus	40.32	kJ/mol	Joback Method
hvap	62.01	kJ/mol	Joback Method
log10ws	-4.17		Crippen Method
logp	2.939		Crippen Method
mcvol	208.150	ml/mol	McGowan Method
pc	2007.30	kPa	Joback Method
rinpol	1787.00		NIST Webbook
rinpol	1832.20		NIST Webbook
rinpol	1787.00		NIST Webbook
rinpol	1832.20		NIST Webbook
ripol	2480.00		NIST Webbook
ripol	2480.00		NIST Webbook
tb	640.61	K	Joback Method
tc	854.81	K	Joback Method
tf	523.09	K	Joback Method
vc	0.797	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	519.47	J/molxK	640.61	Joback Method
cpg	535.91	J/molxK	676.31	Joback Method
cpg	551.47	J/molxK	712.01	Joback Method

cpg	566.18	J/mol×K	747.71	Joback Method
cpg	580.07	J/mol×K	783.41	Joback Method
cpg	593.17	J/mol×K	819.11	Joback Method
cpg	605.50	J/mol×K	854.81	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C126693810&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C126693810&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>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>ripol:</b>	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

Latest version available from:

<https://www.chemeo.com/cid/82-740-9/Z-8-decen-4-6-diyn-1-yl-3-methylbutanoate.pdf>

Generated by Cheméo on 2024-04-29 07:35:37.055733607 +0000 UTC m=+16665385.976310930.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.