

# Dec-4,6,8-triyn-2-enoic acid, methyl ester

<b>Inchi:</b>	InChI=1S/C11H8O2/c1-3-4-5-6-7-8-9-10-11(12)13-2/h9-10H,1-2H3/b10-9+
<b>InchiKey:</b>	LBAVIXQTLKRIGP-MDZDMXLPSA-N
<b>Formula:</b>	C11H8O2
<b>SMILES:</b>	CC#CC#CC#CC=CC(=O)OC
<b>Mol. weight [g/mol]:</b>	172.18

## Physical Properties

Property code	Value	Unit	Source
gf	496.44	kJ/mol	Joback Method
hf	418.95	kJ/mol	Joback Method
hfus	36.60	kJ/mol	Joback Method
hvap	55.65	kJ/mol	Joback Method
log10ws	-2.53		Crippen Method
logp	0.746		Crippen Method
mcvol	143.190	ml/mol	McGowan Method
pc	3476.55	kPa	Joback Method
rinpol	1622.00		NIST Webbook
rinpol	1622.00		NIST Webbook
tb	558.53	K	Joback Method
tc	814.21	K	Joback Method
tf	599.11	K	Joback Method
vc	0.541	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.58	J/mol×K	558.53	Joback Method
cpg	299.35	J/mol×K	601.14	Joback Method
cpg	310.47	J/mol×K	643.76	Joback Method
cpg	320.96	J/mol×K	686.37	Joback Method
cpg	330.83	J/mol×K	728.98	Joback Method
cpg	340.10	J/mol×K	771.60	Joback Method
cpg	348.79	J/mol×K	814.21	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=R419282&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R419282&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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