

# ethyl (Z)-2,(E)-6-dodecadienoate

<b>Inchi:</b>	InChI=1S/C15H26O2/c1-3-5-6-7-8-9-10-11-12-13-15(16)17-14-4-2/h10-13H,3-9,14H2,1-2
<b>InchiKey:</b>	UQEHWMLQKAMSZ-MRBUWEIXSA-N
<b>Formula:</b>	C15H26O2
<b>SMILES:</b>	CCCCCCCC=CC=CC(=O)OCCC
<b>Mol. weight [g/mol]:</b>	238.37

## Physical Properties

Property code	Value	Unit	Source
gf	1.94	kJ/mol	Joback Method
hf	-363.29	kJ/mol	Joback Method
hfus	37.80	kJ/mol	Joback Method
hvap	58.06	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	4.412		Crippen Method
mcvol	221.050	ml/mol	McGowan Method
pc	1589.81	kPa	Joback Method
ripol	1917.00		NIST Webbook
ripol	1917.00		NIST Webbook
tb	627.21	K	Joback Method
tc	806.06	K	Joback Method
tf	320.81	K	Joback Method
vc	0.860	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	580.18	J/molxK	627.21	Joback Method
cpg	596.78	J/molxK	657.02	Joback Method
cpg	612.60	J/molxK	686.83	Joback Method
cpg	627.67	J/molxK	716.64	Joback Method
cpg	642.02	J/molxK	746.45	Joback Method
cpg	655.69	J/molxK	776.25	Joback Method
cpg	668.70	J/molxK	806.06	Joback Method
dvisc	0.0022608	Paxs	320.81	Joback Method

dvisc	0.0009427	Paxs	371.88	Joback Method
dvisc	0.0004855	Paxs	422.94	Joback Method
dvisc	0.0002885	Paxs	474.01	Joback Method
dvisc	0.0001897	Paxs	525.08	Joback Method
dvisc	0.0001343	Paxs	576.14	Joback Method
dvisc	0.0001006	Paxs	627.21	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R417697&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R417697&amp;Units=SI</a>
<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>

## 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>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

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