

# ethyl deca-4, 8-dienoate

<b>Inchi:</b>	InChI=1S/C12H20O2/c1-3-5-6-7-8-9-10-11-12(13)14-4-2/h3,5,8-9H,4,6-7,10-11H2,1-2H3
<b>InchiKey:</b>	AFCRXJWIRXHQLH-YEQUJYSKSA-N
<b>Formula:</b>	C12H20O2
<b>SMILES:</b>	CC=CCCC=CCCC(=O)OCC
<b>Mol. weight [g/mol]:</b>	196.29

## Physical Properties

Property code	Value	Unit	Source
gf	-23.32	kJ/mol	Joback Method
hf	-301.37	kJ/mol	Joback Method
hfus	30.03	kJ/mol	Joback Method
hvap	51.38	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.242		Crippen Method
mcvol	178.780	ml/mol	McGowan Method
pc	2029.06	kPa	Joback Method
ripol	1721.00		NIST Webbook
tb	558.57	K	Joback Method
tc	742.19	K	Joback Method
tf	287.00	K	Joback Method
vc	0.692	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	427.05	J/molxK	558.57	Joback Method
cpg	494.87	J/molxK	711.59	Joback Method
cpg	482.61	J/molxK	680.98	Joback Method
cpg	469.73	J/molxK	650.38	Joback Method
cpg	456.20	J/molxK	619.78	Joback Method
cpg	441.98	J/molxK	589.17	Joback Method
cpg	506.52	J/molxK	742.19	Joback Method
dvisc	0.0001355	Paxs	558.57	Joback Method
dvisc	0.0001789	Paxs	513.31	Joback Method

dvisc	0.0002493	Paxs	468.05	Joback Method
dvisc	0.0003730	Paxs	422.79	Joback Method
dvisc	0.0006146	Paxs	377.52	Joback Method
dvisc	0.0011604	Paxs	332.26	Joback Method
dvisc	0.0026769	Paxs	287.00	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=R307609&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R307609&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>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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