

# Ethyl- «gamma»-linolenate

<b>Inchi:</b>	InChI=1S/C20H34O2/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20(21)22-4-2/h8-9,
<b>InchiKey:</b>	MJLYTDAIYLGSZRZ-ORZIMQNZSA-N
<b>Formula:</b>	C20H34O2
<b>SMILES:</b>	CCCCC=CCC=CC=CCCCC(=O)OCC
<b>Mol. weight [g/mol]:</b>	306.48

## Physical Properties

Property code	Value	Unit	Source
gf	124.26	kJ/mol	Joback Method
hf	-349.27	kJ/mol	Joback Method
hfus	50.95	kJ/mol	Joback Method
hvap	69.14	kJ/mol	Joback Method
log10ws	-6.62		Crippen Method
logp	6.139		Crippen Method
mvol	287.200	ml/mol	McGowan Method
pc	1160.08	kPa	Joback Method
ripol	2551.00		NIST Webbook
ripol	2551.00		NIST Webbook
tb	745.77	K	Joback Method
tc	927.85	K	Joback Method
tf	372.08	K	Joback Method
vc	1.119	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	838.59	J/molxK	745.77	Joback Method
cpg	856.73	J/molxK	776.12	Joback Method
cpg	874.01	J/molxK	806.46	Joback Method
cpg	890.45	J/molxK	836.81	Joback Method
cpg	906.13	J/molxK	867.15	Joback Method
cpg	921.08	J/molxK	897.50	Joback Method
cpg	935.36	J/molxK	927.85	Joback Method
dvisc	0.0013631	Paxs	372.08	Joback Method

dvisc	0.0005220	Paxs	434.36	Joback Method
dvisc	0.0002543	Paxs	496.64	Joback Method
dvisc	0.0001454	Paxs	558.92	Joback Method
dvisc	0.0000930	Paxs	621.21	Joback Method
dvisc	0.0000646	Paxs	683.49	Joback Method
dvisc	0.0000476	Paxs	745.77	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R337021&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R337021&amp;Units=SI</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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