

# cis-5,8,11,14,17-Eicosapentaenoic acid

<b>Other names:</b>	Icosapentaenoic acid (all-Z)-5,8,11,14,17-Eicosapentaenoic acid EPA Timnodonic acid 5,8,11,14,17-Eicosapentaenoic acid, (5Z,8Z,11Z,14Z,17Z)- Eicosapentaenoic acid
<b>Inchi:</b>	InChI=1S/C20H30O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20(21)22/h3-4,
<b>InchiKey:</b>	JAZBEHYOTPTENJ-JLNKQSITSA-N
<b>Formula:</b>	C20H30O2
<b>SMILES:</b>	CCC=CCC=CCC=CCC=CCC=CCCC(=O)O
<b>Mol. weight [g/mol]:</b>	302.45
<b>CAS:</b>	10417-94-4

## Physical Properties

Property code	Value	Unit	Source
gf	252.88	kJ/mol	Joback Method
hf	-134.84	kJ/mol	Joback Method
hfus	54.25	kJ/mol	Joback Method
hvap	83.33	kJ/mol	Joback Method
log10ws	-6.56		Crippen Method
logp	5.993		Crippen Method
mcvol	278.600	ml/mol	McGowan Method
pc	1348.67	kPa	Joback Method
rinpol	2334.20		NIST Webbook
rinpol	2334.20		NIST Webbook
tb	823.85	K	Joback Method
tc	1015.83	K	Joback Method
tf	400.51	K	Joback Method
vc	1.081	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	827.37	J/mol×K	823.85	Joback Method

cpg	842.80	J/mol×K	855.85	Joback Method
cpg	857.60	J/mol×K	887.84	Joback Method
cpg	871.88	J/mol×K	919.84	Joback Method
cpg	885.71	J/mol×K	951.83	Joback Method
cpg	899.21	J/mol×K	983.83	Joback Method
cpg	912.45	J/mol×K	1015.83	Joback Method
dvisc	0.0014454	Paxs	400.51	Joback Method
dvisc	0.0003190	Paxs	471.07	Joback Method
dvisc	0.0001043	Paxs	541.62	Joback Method
dvisc	0.0000442	Paxs	612.18	Joback Method
dvisc	0.0000223	Paxs	682.74	Joback Method
dvisc	0.0000128	Paxs	753.29	Joback Method
dvisc	0.0000081	Paxs	823.85	Joback Method

## Sources

<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=C10417944&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10417944&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>

## 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>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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