

METHYL EICOSA-5,8,11,14,17-PENTAENOATE

Other names:	Eicosapentaenoic acid, methyl ester
Inchi:	InChI=1S/C21H32O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21(22)23-2/h4
InchiKey:	QWDCYFDDFPWISL-ZACMJQCDSA-N
Formula:	C21H32O2
SMILES:	CC/C=C/C/C=C/C/C=C/C/C=C/C/C=C/C/C=C/C/C=C/C/C=C/C/C=C/C/C=C/C
Mol. weight [g/mol]:	316.48

Physical Properties

Property code	Value	Unit	Source
af	0.5247		Cheméo Relay (1.0)
hf	-386.14	kJ/mol	Cheméo Relay (1.0)
hfus	53.94	kJ/mol	Joback Method
hvap	121.45	kJ/mol	Cheméo Relay (1.0)
ie	8.41	eV	Cheméo Relay (1.0)
log10ws	-6.06		Cheméo Relay (1.0)
logp	6.081		Crippen Method
mcvol	292.690	ml/mol	McGowan Method
pc	1166.43	kPa	Joback Method
ripol	2174.00		NIST Webbook
ripol	2174.00		NIST Webbook
tb	591.19	K	Cheméo Relay (1.0)
tc	776.89	K	Cheméo Relay (1.0)
tf	295.30	K	Cheméo Relay (1.0)
vc	0.943	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	848.88	J/mol×K	776.97	Joback Method
cpg	866.46	J/mol×K	808.82	Joback Method
cpg	883.21	J/mol×K	840.68	Joback Method
cpg	899.21	J/mol×K	872.53	Joback Method
cpg	914.55	J/mol×K	904.39	Joback Method
cpg	929.29	J/mol×K	936.24	Joback Method

cpg	943.52	J/mol×K	968.10	Joback Method
dvisc	0.0010789	Pa×s	373.19	Joback Method
dvisc	0.0003818	Pa×s	440.49	Joback Method
dvisc	0.0001780	Pa×s	507.78	Joback Method
dvisc	0.0000992	Pa×s	575.08	Joback Method
dvisc	0.0000625	Pa×s	642.38	Joback Method
dvisc	0.0000430	Pa×s	709.67	Joback Method
dvisc	0.0000315	Pa×s	776.97	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1191657&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/76-693-9/METHYL-EICOSA-5-8-11-14-17-PENTAENOATE.pdf>

Generated by Cheméo on 2026-07-21 15:39:47.862522168 +0000 UTC m=+159483.704407536.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.