

(Z)-Ethyl pentadec-9-enoate

Inchi:	InChI=1S/C17H32O2/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17(18)19-4-2/h8-9H,3-7,10-1
InchiKey:	YCUAXIJPWZNGCR-HJWRWDBZSA-N
Formula:	C17H32O2
SMILES:	CCCCC=CCCCCCCCC(=O)OCC
Mol. weight [g/mol]:	268.43
CAS:	56219-09-1

Physical Properties

Property code	Value	Unit	Source
gf	-61.44	kJ/mol	Joback Method
hf	-521.79	kJ/mol	Joback Method
hfus	42.77	kJ/mol	Joback Method
hvap	62.55	kJ/mol	Joback Method
log10ws	-5.65		Crippen Method
logp	5.417		Crippen Method
mcvol	253.530	ml/mol	McGowan Method
pc	1320.39	kPa	Joback Method
rinpol	1864.50		NIST Webbook
rinpol	1864.50		NIST Webbook
tb	668.81	K	Joback Method
tc	841.03	K	Joback Method
tf	348.43	K	Joback Method
vc	0.992	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	710.95	J/mol×K	668.81	Joback Method
cpg	792.67	J/mol×K	812.33	Joback Method
cpg	777.84	J/mol×K	783.62	Joback Method
cpg	762.28	J/mol×K	754.92	Joback Method
cpg	745.96	J/mol×K	726.22	Joback Method
cpg	728.86	J/mol×K	697.51	Joback Method
cpg	806.79	J/mol×K	841.03	Joback Method

dvisc	0.0000930	Pa×s	668.81	Joback Method
dvisc	0.0001246	Pa×s	615.41	Joback Method
dvisc	0.0001766	Pa×s	562.02	Joback Method
dvisc	0.0002691	Pa×s	508.62	Joback Method
dvisc	0.0004527	Pa×s	455.22	Joback Method
dvisc	0.0008745	Pa×s	401.83	Joback Method
dvisc	0.0020673	Pa×s	348.43	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56219091&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-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.chemeo.com/cid/82-919-1/Z-Ethyl-pentadec-9-enoate.pdf>

Generated by Cheméo on 2025-12-05 12:52:39.083721046 +0000 UTC m=+4687356.613761700.

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