

Tetradec-9-enoic acid tetradec-9-enyl ester, Z,Z

Inchi: InChI=1S/C28H52O2/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-30-28(29)26-24-22-20-18-
InchiKey: DLWIEMYWILBAKT-IXIPZQGVSA-N
Formula: C28H52O2
SMILES: CCCCC=CCCCCCCCCOC(=O)CCCCCCCC=CCCCC
Mol. weight [g/mol]: 420.71

Physical Properties

Property code	Value	Unit	Source
gf	111.40	kJ/mol	Joback Method
hf	-631.61	kJ/mol	Joback Method
hfus	71.47	kJ/mol	Joback Method
hvap	86.99	kJ/mol	Joback Method
log10ws	-10.11		Crippen Method
logp	9.484		Crippen Method
mcvol	404.220	ml/mol	McGowan Method
pc	708.84	kPa	Joback Method
rinpol	2932.37		NIST Webbook
tb	924.65	K	Joback Method
tc	1135.37	K	Joback Method
tf	467.32	K	Joback Method
vc	1.587	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1362.39	J/mol×K	924.65	Joback Method
cpg	1465.62	J/mol×K	1100.25	Joback Method
cpg	1447.18	J/mol×K	1065.13	Joback Method
cpg	1427.72	J/mol×K	1030.01	Joback Method
cpg	1407.17	J/mol×K	994.89	Joback Method
cpg	1385.42	J/mol×K	959.77	Joback Method
cpg	1483.14	J/mol×K	1135.37	Joback Method
dvisc	0.0000176	Pa×s	924.65	Joback Method
dvisc	0.0000242	Pa×s	848.43	Joback Method

dvisc	0.0000354	Pa×s	772.21	Joback Method
dvisc	0.0000562	Pa×s	695.99	Joback Method
dvisc	0.0001002	Pa×s	619.76	Joback Method
dvisc	0.0002098	Pa×s	543.54	Joback Method
dvisc	0.0005594	Pa×s	467.32	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R436589&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

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/36-815-7/Tetradec-9-enoic-acid-tetradec-9-enyl-ester-Z-Z.pdf>

Generated by Cheméo on 2025-12-22 15:57:19.130597404 +0000 UTC m=+6167236.660638059.

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