

# (9Z,12Z)-1,3-Dimethoxypropan-2-yl octadeca-9,12-dienoate

Inchi:	InChI=1S/C23H42O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-23(24)27-22(20-25)
InchiKey:	VUFWEVFHGYJUSE-MURFETPASA-N
Formula:	C23H42O4
SMILES:	CCCCC=CCC=CCCCCCCCC(=O)OC(COC)COC
Mol. weight [g/mol]:	382.58

## Physical Properties

Property code	Value	Unit	Source
gf	-143.14	kJ/mol	Joback Method
hf	-798.13	kJ/mol	Joback Method
hfus	57.37	kJ/mol	Joback Method
hvap	80.30	kJ/mol	Joback Method
log10ws	-6.31		Crippen Method
logp	6.005		Crippen Method
mcvol	345.510	ml/mol	McGowan Method
pc	917.16	kPa	Joback Method
rinpol	2598.60		NIST Webbook
rinpol	2598.60		NIST Webbook
tb	854.65	K	Joback Method
tc	1046.80	K	Joback Method
tf	440.43	K	Joback Method
vc	1.337	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1109.83	J/molxK	854.65	Joback Method
cpg	1129.43	J/molxK	886.68	Joback Method
cpg	1147.88	J/molxK	918.70	Joback Method
cpg	1165.22	J/molxK	950.73	Joback Method
cpg	1181.49	J/molxK	982.75	Joback Method
cpg	1196.71	J/molxK	1014.78	Joback Method
cpg	1210.94	J/molxK	1046.80	Joback Method
dvisc	0.0005551	Paxs	440.43	Joback Method

dvisc	0.0002153	Paxs	509.47	Joback Method
dvisc	0.0001046	Paxs	578.50	Joback Method
dvisc	0.0000593	Paxs	647.54	Joback Method
dvisc	0.0000375	Paxs	716.58	Joback Method
dvisc	0.0000257	Paxs	785.61	Joback Method
dvisc	0.0000187	Paxs	854.65	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=U412791&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U412791&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>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
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/88-575-7/9Z-12Z-1-3-Dimethoxypropan-2-yl-octadeca-9-12-dienoate.pdf>

Generated by Cheméo on 2024-04-25 16:57:53.020578801 +0000 UTC m=+16353521.941156116.

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