

# Glycerol, 2,3-dimethyl, 1-tetradecanoate

<b>Inchi:</b>	InChI=1S/C19H38O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-19(20)23-17-18(22-3)16-21-2/h
<b>InchiKey:</b>	KJCOAUHDEUCUBQ-UHFFFAOYSA-N
<b>Formula:</b>	C19H38O4
<b>SMILES:</b>	CCCCCCCCCCCCC(=O)OCC(COC)OC
<b>Mol. weight [g/mol]:</b>	330.50

## Physical Properties

Property code	Value	Unit	Source
gf	-337.26	kJ/mol	Joback Method
hf	-950.01	kJ/mol	Joback Method
hfus	46.61	kJ/mol	Joback Method
hvap	71.48	kJ/mol	Joback Method
log10ws	-4.92		Crippen Method
logp	4.892		Crippen Method
mcvol	297.750	ml/mol	McGowan Method
pc	1094.99	kPa	Joback Method
rinpola	2073.00		NIST Webbook
tb	754.81	K	Joback Method
tc	929.81	K	Joback Method
tf	405.51	K	Joback Method
vc	1.153	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	914.19	J/molxK	754.81	Joback Method
cpg	933.22	J/molxK	783.98	Joback Method
cpg	951.28	J/molxK	813.14	Joback Method
cpg	968.39	J/molxK	842.31	Joback Method
cpg	984.55	J/molxK	871.47	Joback Method
cpg	999.77	J/molxK	900.64	Joback Method
cpg	1014.05	J/molxK	929.81	Joback Method
dvisc	0.0010237	Paxs	405.51	Joback Method
dvisc	0.0004370	Paxs	463.73	Joback Method

dvisc	0.0002255	Paxs	521.94	Joback Method
dvisc	0.0001329	Paxs	580.16	Joback Method
dvisc	0.0000863	Paxs	638.38	Joback Method
dvisc	0.0000602	Paxs	696.59	Joback Method
dvisc	0.0000444	Paxs	754.81	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=R56553&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R56553&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

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