

# Diglycolic acid, neopentyl tetradecyl ester

<b>Inchi:</b>	InChI=1S/C23H44O5/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-27-21(24)18-26-19-22(25)2
<b>InchiKey:</b>	YUUVGIZDJOTVTR-UHFFFAOYSA-N
<b>Formula:</b>	C23H44O5
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)COCC(=O)OCC(C)(C)C
<b>Mol. weight [g/mol]:</b>	400.59

## Physical Properties

Property code	Value	Unit	Source
gf	-427.22	kJ/mol	Joback Method
hf	-1148.62	kJ/mol	Joback Method
hfus	54.67	kJ/mol	Joback Method
hvap	86.22	kJ/mol	Joback Method
log10ws	-6.02		Crippen Method
logp	5.837		Crippen Method
mvol	355.680	ml/mol	McGowan Method
pc	900.72	kPa	Joback Method
rinpol	3246.00		NIST Webbook
rinpol	3246.00		NIST Webbook
tb	897.41	K	Joback Method
tc	1098.80	K	Joback Method
tf	517.94	K	Joback Method
vc	1.379	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1186.80	J/molxK	897.41	Joback Method
cpg	1205.89	J/molxK	930.98	Joback Method
cpg	1223.63	J/molxK	964.54	Joback Method
cpg	1240.04	J/molxK	998.11	Joback Method
cpg	1255.15	J/molxK	1031.67	Joback Method
cpg	1269.01	J/molxK	1065.24	Joback Method
cpg	1281.64	J/molxK	1098.80	Joback Method
dvisc	0.0003645	Paxs	517.94	Joback Method

dvisc	0.0001720	Paxs	581.19	Joback Method
dvisc	0.0000940	Paxs	644.43	Joback Method
dvisc	0.0000573	Paxs	707.67	Joback Method
dvisc	0.0000378	Paxs	770.92	Joback Method
dvisc	0.0000266	Paxs	834.16	Joback Method
dvisc	0.0000197	Paxs	897.41	Joback Method

## Sources

<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=U381926&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381926&amp;Units=SI</a>
<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>

## 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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