

# Diglycolic acid, phenethyl undecyl ester

<b>Inchi:</b>	InChI=1S/C23H36O5/c1-2-3-4-5-6-7-8-9-13-17-27-22(24)19-26-20-23(25)28-18-16-21-14
<b>InchiKey:</b>	RTDVZTDLJWVXHU-UHFFFAOYSA-N
<b>Formula:</b>	C23H36O5
<b>SMILES:</b>	CCCCCCCCCOC(=O)COCC(=O)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	392.53

## Physical Properties

Property code	Value	Unit	Source
gf	-317.65	kJ/mol	Joback Method
hf	-903.34	kJ/mol	Joback Method
hfus	56.13	kJ/mol	Joback Method
hvap	89.79	kJ/mol	Joback Method
log10ws	-5.37		Crippen Method
logp	4.863		Crippen Method
mvol	331.920	ml/mol	McGowan Method
pc	1096.44	kPa	Joback Method
rinpol	3641.00		NIST Webbook
rinpol	3641.00		NIST Webbook
tb	927.32	K	Joback Method
tc	1135.98	K	Joback Method
tf	541.94	K	Joback Method
vc	1.282	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1088.48	J/molxK	927.32	Joback Method
cpg	1104.78	J/molxK	962.10	Joback Method
cpg	1119.66	J/molxK	996.87	Joback Method
cpg	1133.17	J/molxK	1031.65	Joback Method
cpg	1145.31	J/molxK	1066.43	Joback Method
cpg	1156.12	J/molxK	1101.20	Joback Method
cpg	1165.63	J/molxK	1135.98	Joback Method
dvisc	0.0003438	Paxs	541.94	Joback Method

dvisc	0.0001780	Paxs	606.17	Joback Method
dvisc	0.0001045	Paxs	670.40	Joback Method
dvisc	0.0000674	Paxs	734.63	Joback Method
dvisc	0.0000466	Paxs	798.86	Joback Method
dvisc	0.0000340	Paxs	863.09	Joback Method
dvisc	0.0000260	Paxs	927.32	Joback Method

## Sources

<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=U382166&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382166&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>

## Legend

<b>cp<sub>g</sub>:</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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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