

# Diglycolic acid, butyl undecyl ester

<b>Inchi:</b>	InChI=1S/C19H36O5/c1-3-5-7-8-9-10-11-12-13-15-24-19(21)17-22-16-18(20)23-14-6-4-2
<b>InchiKey:</b>	KCEACNHSPGCWHW-UHFFFAOYSA-N
<b>Formula:</b>	C19H36O5
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)COCC(=O)OCCCC
<b>Mol. weight [g/mol]:</b>	344.49

## Physical Properties

Property code	Value	Unit	Source
gf	-463.74	kJ/mol	Joback Method
hf	-1057.31	kJ/mol	Joback Method
hfus	51.73	kJ/mol	Joback Method
hvap	78.61	kJ/mol	Joback Method
log10ws	-4.59		Crippen Method
logp	4.420		Crippen Method
mvol	299.320	ml/mol	McGowan Method
pc	1135.96	kPa	Joback Method
rinpol	2905.00		NIST Webbook
rinpol	2905.00		NIST Webbook
tb	809.12	K	Joback Method
tc	992.99	K	Joback Method
tf	470.44	K	Joback Method
vc	1.165	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	940.26	J/molxK	809.12	Joback Method
cpg	957.88	J/molxK	839.76	Joback Method
cpg	974.45	J/molxK	870.41	Joback Method
cpg	989.99	J/molxK	901.05	Joback Method
cpg	1004.48	J/molxK	931.70	Joback Method
cpg	1017.95	J/molxK	962.34	Joback Method
cpg	1030.39	J/molxK	992.99	Joback Method
dvisc	0.0006407	Paxs	470.44	Joback Method

dvisc	0.0003267	Paxs	526.89	Joback Method
dvisc	0.0001897	Paxs	583.33	Joback Method
dvisc	0.0001213	Paxs	639.78	Joback Method
dvisc	0.0000834	Paxs	696.23	Joback Method
dvisc	0.0000606	Paxs	752.67	Joback Method
dvisc	0.0000461	Paxs	809.12	Joback Method

## Sources

<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=U381863&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381863&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hvap:</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>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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