

# Diglycolic acid, decyl 2,6-dimethoxyphenyl ester

Inchi:	InChI=1S/C22H34O7/c1-4-5-6-7-8-9-10-11-15-28-20(23)16-27-17-21(24)29-22-18(25-2)
InchiKey:	AYGCNGDIAPBPTM-UHFFFAOYSA-N
Formula:	C22H34O7
SMILES:	CCCCCCCCCOC(=O)COCC(=O)Oc1c(OC)ccc1OC
Mol. weight [g/mol]:	410.50

## Physical Properties

Property code	Value	Unit	Source
gf	-555.33	kJ/mol	Joback Method
hf	-1170.08	kJ/mol	Joback Method
hfus	55.14	kJ/mol	Joback Method
hvap	93.71	kJ/mol	Joback Method
log10ws	-5.00		Crippen Method
logp	4.310		Crippen Method
mcvol	329.570	ml/mol	McGowan Method
pc	1120.05	kPa	Joback Method
rinsol	3566.00		NIST Webbook
tb	959.24	K	Joback Method
tc	1174.41	K	Joback Method
tf	600.17	K	Joback Method
vc	1.262	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1084.01	J/molxK	959.24	Joback Method
cpg	1138.55	J/molxK	1138.55	Joback Method
cpg	1131.19	J/molxK	1102.69	Joback Method
cpg	1122.03	J/molxK	1066.83	Joback Method
cpg	1111.11	J/molxK	1030.96	Joback Method
cpg	1098.43	J/molxK	995.10	Joback Method
cpg	1144.12	J/molxK	1174.41	Joback Method
dvisc	0.0000172	Paxs	959.24	Joback Method
dvisc	0.0000218	Paxs	899.39	Joback Method

dvisc	0.0000286	Paxs	839.55	Joback Method
dvisc	0.0000391	Paxs	779.71	Joback Method
dvisc	0.0000563	Paxs	719.86	Joback Method
dvisc	0.0000865	Paxs	660.02	Joback Method
dvisc	0.0001449	Paxs	600.17	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=U381912&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381912&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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