

# Diglycolic acid, 2,5-dimethylphenyl dodecyl ester

Inchi:	InChI=1S/C24H38O5/c1-4-5-6-7-8-9-10-11-12-13-16-28-23(25)18-27-19-24(26)29-22-17
InchiKey:	NMVXLHSROHKYDE-UHFFFAOYSA-N
Formula:	C24H38O5
SMILES:	CCCCCCCCCCCCOC(=O)COCC(=O)Oc1cc(C)ccc1C
Mol. weight [g/mol]:	406.56

## Physical Properties

Property code	Value	Unit	Source
gf	-328.49	kJ/mol	Joback Method
hf	-946.92	kJ/mol	Joback Method
hfus	57.94	kJ/mol	Joback Method
hvap	93.34	kJ/mol	Joback Method
log10ws	-6.55		Crippen Method
logp	5.690		Crippen Method
mvol	346.010	ml/mol	McGowan Method
pc	1010.37	kPa	Joback Method
rinpol	3543.00		NIST Webbook
rinpol	3543.00		NIST Webbook
tb	960.16	K	Joback Method
tc	1175.51	K	Joback Method
tf	578.25	K	Joback Method
vc	1.337	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1148.50	J/molxK	960.16	Joback Method
cpg	1164.75	J/molxK	996.05	Joback Method
cpg	1179.44	J/molxK	1031.94	Joback Method
cpg	1192.59	J/molxK	1067.83	Joback Method
cpg	1204.21	J/molxK	1103.72	Joback Method
cpg	1214.32	J/molxK	1139.61	Joback Method
cpg	1222.95	J/molxK	1175.51	Joback Method
dvisc	0.0002350	Paxs	578.25	Joback Method

dvisc	0.0001321	Paxs	641.90	Joback Method
dvisc	0.0000824	Paxs	705.55	Joback Method
dvisc	0.0000555	Paxs	769.21	Joback Method
dvisc	0.0000398	Paxs	832.86	Joback Method
dvisc	0.0000299	Paxs	896.51	Joback Method
dvisc	0.0000233	Paxs	960.16	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=U382713&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382713&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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