

# Diglycolic acid, 2,6-dimethoxyphenyl heptyl ester

Inchi:	InChI=1S/C19H28O7/c1-4-5-6-7-8-12-25-17(20)13-24-14-18(21)26-19-15(22-2)10-9-11-
InchiKey:	OBXRDTVPVPHLBDH-UHFFFAOYSA-N
Formula:	C19H28O7
SMILES:	CCCCCCCOC(=O)COCC(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]:	368.42

## Physical Properties

Property code	Value	Unit	Source
gf	-580.59	kJ/mol	Joback Method
hf	-1108.16	kJ/mol	Joback Method
hfus	47.37	kJ/mol	Joback Method
hvap	87.03	kJ/mol	Joback Method
log10ws	-3.74		Crippen Method
logp	3.139		Crippen Method
mcvol	287.300	ml/mol	McGowan Method
pc	1371.74	kPa	Joback Method
rinqol	3228.00		NIST Webbook
tb	890.60	K	Joback Method
tc	1095.42	K	Joback Method
tf	566.36	K	Joback Method
vc	1.093	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	904.79	J/molxK	890.60	Joback Method
cpg	919.03	J/molxK	924.74	Joback Method
cpg	931.88	J/molxK	958.87	Joback Method
cpg	943.32	J/molxK	993.01	Joback Method
cpg	953.32	J/molxK	1027.14	Joback Method
cpg	961.86	J/molxK	1061.28	Joback Method
cpg	968.91	J/molxK	1095.42	Joback Method
dvisc	0.0002015	Paxs	566.36	Joback Method
dvisc	0.0001245	Paxs	620.40	Joback Method

dvisc	0.0000830	Paxs	674.44	Joback Method
dvisc	0.0000588	Paxs	728.48	Joback Method
dvisc	0.0000437	Paxs	782.52	Joback Method
dvisc	0.0000338	Paxs	836.56	Joback Method
dvisc	0.0000269	Paxs	890.60	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=U381909&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381909&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>

## 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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