

# Diglycolic acid, octyl 3-phenylpropyl ester

<b>Inchi:</b>	InChI=1S/C21H32O5/c1-2-3-4-5-6-10-15-25-20(22)17-24-18-21(23)26-16-11-14-19-12-8
<b>InchiKey:</b>	FEPLBBHBUDRBAJ-UHFFFAOYSA-N
<b>Formula:</b>	C21H32O5
<b>SMILES:</b>	CCCCCCCCOC(=O)COCC(=O)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	364.48

## Physical Properties

Property code	Value	Unit	Source
gf	-334.49	kJ/mol	Joback Method
hf	-862.06	kJ/mol	Joback Method
hfus	50.95	kJ/mol	Joback Method
hvap	85.34	kJ/mol	Joback Method
log10ws	-4.53		Crippen Method
logp	4.083		Crippen Method
mvol	303.740	ml/mol	McGowan Method
pc	1250.38	kPa	Joback Method
rinpol	3394.00		NIST Webbook
rinpol	3394.00		NIST Webbook
tb	881.56	K	Joback Method
tc	1084.04	K	Joback Method
tf	519.40	K	Joback Method
vc	1.169	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	967.40	J/molxK	881.56	Joback Method
cpg	1034.55	J/molxK	1050.29	Joback Method
cpg	1023.57	J/molxK	1016.55	Joback Method
cpg	1011.39	J/molxK	982.80	Joback Method
cpg	997.98	J/molxK	949.05	Joback Method
cpg	983.32	J/molxK	915.31	Joback Method
cpg	1044.34	J/molxK	1084.04	Joback Method
dvisc	0.0000350	Paxs	881.56	Joback Method

dvisc	0.0000457	Paxs	821.20	Joback Method
dvisc	0.0000621	Paxs	760.84	Joback Method
dvisc	0.0000890	Paxs	700.48	Joback Method
dvisc	0.0001365	Paxs	640.12	Joback Method
dvisc	0.0002290	Paxs	579.76	Joback Method
dvisc	0.0004332	Paxs	519.40	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=U382177&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382177&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>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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