

# Diglycolic acid, 2-formylphenyl propyl ester

**Inchi:** InChI=1S/C14H16O6/c1-2-7-19-13(16)9-18-10-14(17)20-12-6-4-3-5-11(12)8-15/h3-6,8H,  
**InchiKey:** XUGQXIRHBIWZCA-UHFFFAOYSA-N  
**Formula:** C14H16O6  
**SMILES:** CCCOC(=O)COCC(=O)Oc1ccccc1C=O  
**Mol. weight [g/mol]:** 280.27

## Physical Properties

Property code	Value	Unit	Source
gf	-502.58	kJ/mol	Joback Method
hf	-814.63	kJ/mol	Joback Method
hfus	34.72	kJ/mol	Joback Method
hvap	77.14	kJ/mol	Joback Method
log10ws	-2.07		Crippen Method
logp	1.374		Crippen Method
mcvol	206.680	ml/mol	McGowan Method
pc	2274.07	kPa	Joback Method
rinpol	2580.00		NIST Webbook
rinpol	2580.00		NIST Webbook
tb	775.04	K	Joback Method
tc	982.45	K	Joback Method
tf	495.03	K	Joback Method
vc	0.794	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	581.29	J/molxK	775.04	Joback Method
cpg	593.61	J/molxK	809.61	Joback Method
cpg	604.98	J/molxK	844.18	Joback Method
cpg	615.40	J/molxK	878.75	Joback Method
cpg	624.87	J/molxK	913.31	Joback Method
cpg	633.37	J/molxK	947.88	Joback Method
cpg	640.90	J/molxK	982.45	Joback Method
dvisc	0.0007041	Paxs	495.03	Joback Method

dvisc	0.0004430	Paxs	541.70	Joback Method
dvisc	0.0003000	Paxs	588.37	Joback Method
dvisc	0.0002152	Paxs	635.03	Joback Method
dvisc	0.0001615	Paxs	681.70	Joback Method
dvisc	0.0001257	Paxs	728.37	Joback Method
dvisc	0.0001009	Paxs	775.04	Joback Method

## Sources

<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=U382307&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382307&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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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