

# Diglycolic acid, 4-acetylphenyl ethyl ester

<b>Inchi:</b>	InChI=1S/C14H16O6/c1-3-19-13(16)8-18-9-14(17)20-12-6-4-11(5-7-12)10(2)15/h4-7H,3,
<b>InchiKey:</b>	HIBQMBSYECRFTP-UHFFFAOYSA-N
<b>Formula:</b>	C14H16O6
<b>SMILES:</b>	CCOC(=O)COCC(=O)Oc1ccc(C(C)=O)cc1
<b>Mol. weight [g/mol]:</b>	280.27

## Physical Properties

Property code	Value	Unit	Source
gf	-531.98	kJ/mol	Joback Method
hf	-841.63	kJ/mol	Joback Method
hfus	34.03	kJ/mol	Joback Method
hvap	77.16	kJ/mol	Joback Method
log10ws	-2.07		Crippen Method
logp	1.374		Crippen Method
mvol	206.680	ml/mol	McGowan Method
pc	2250.40	kPa	Joback Method
rinpol	2673.00		NIST Webbook
rinpol	2673.00		NIST Webbook
tb	780.25	K	Joback Method
tc	991.06	K	Joback Method
tf	502.96	K	Joback Method
vc	0.783	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	581.06	J/molxK	780.25	Joback Method
cpg	633.43	J/molxK	955.92	Joback Method
cpg	624.96	J/molxK	920.79	Joback Method
cpg	615.49	J/molxK	885.65	Joback Method
cpg	605.00	J/molxK	850.52	Joback Method
cpg	593.53	J/molxK	815.38	Joback Method
cpg	640.86	J/molxK	991.06	Joback Method
dvisc	0.0000903	Paxs	780.25	Joback Method

dvisc	0.0001124	Paxs	734.04	Joback Method
dvisc	0.0001441	Paxs	687.82	Joback Method
dvisc	0.0001915	Paxs	641.61	Joback Method
dvisc	0.0002660	Paxs	595.39	Joback Method
dvisc	0.0003905	Paxs	549.18	Joback Method
dvisc	0.0006150	Paxs	502.96	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=U382698&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382698&amp;Units=SI</a>
<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>

## 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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