

# Diglycolic acid, di(2-acetylphenyl) ester

<b>Inchi:</b>	InChI=1S/C20H18O7/c1-13(21)15-7-3-5-9-17(15)26-19(23)11-25-12-20(24)27-18-10-6-4
<b>InchiKey:</b>	VVMWPLAKJAFVAP-UHFFFAOYSA-N
<b>Formula:</b>	C20H18O7
<b>SMILES:</b>	CC(=O)c1ccccc1OC(=O)COCC(=O)Oc1ccccc1C(C)=O
<b>Mol. weight [g/mol]:</b>	370.35

## Physical Properties

Property code	Value	Unit	Source
gf	-507.60	kJ/mol	Joback Method
hf	-852.99	kJ/mol	Joback Method
hfus	44.82	kJ/mol	Joback Method
hvap	100.20	kJ/mol	Joback Method
log10ws	-4.16		Crippen Method
logp	2.619		Crippen Method
mvol	269.030	ml/mol	McGowan Method
pc	1882.17	kPa	Joback Method
rinpol	3205.00		NIST Webbook
rinpol	3205.00		NIST Webbook
tb	1003.06	K	Joback Method
tc	1240.69	K	Joback Method
tf	659.45	K	Joback Method
vc	1.018	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	820.32	J/molxK	1003.06	Joback Method
cpg	847.42	J/molxK	1201.08	Joback Method
cpg	845.09	J/molxK	1161.48	Joback Method
cpg	841.22	J/molxK	1121.87	Joback Method
cpg	835.81	J/molxK	1082.27	Joback Method
cpg	828.85	J/molxK	1042.66	Joback Method
cpg	848.23	J/molxK	1240.69	Joback Method
dvisc	0.0000390	Paxs	1003.06	Joback Method

dvisc	0.0000482	Paxs	945.79	Joback Method
dvisc	0.0000613	Paxs	888.52	Joback Method
dvisc	0.0000804	Paxs	831.25	Joback Method
dvisc	0.0001099	Paxs	773.99	Joback Method
dvisc	0.0001579	Paxs	716.72	Joback Method
dvisc	0.0002415	Paxs	659.45	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=U382730&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382730&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>
<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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