

# Glutaric acid, 3-methylbut-2-yl 4-acetylphenyl ester

Inchi:	InChI=1S/C18H24O5/c1-12(2)14(4)22-17(20)6-5-7-18(21)23-16-10-8-15(9-11-16)13(3)19
InchiKey:	LZRURGZOQLFHNP-UHFFFAOYSA-N
Formula:	C18H24O5
SMILES:	CC(=O)c1ccc(OC(=O)CCCC(=O)OC(C)C(C)C)cc1
Mol. weight [g/mol]:	320.38

## Physical Properties

Property code	Value	Unit	Source
gf	-398.18	kJ/mol	Joback Method
hf	-802.53	kJ/mol	Joback Method
hfus	36.15	kJ/mol	Joback Method
hvap	82.88	kJ/mol	Joback Method
log10ws	-4.53		Crippen Method
logp	3.553		Crippen Method
mcvol	257.170	ml/mol	McGowan Method
pc	1653.80	kPa	Joback Method
rinpol	2397.00		NIST Webbook
rinpol	2397.00		NIST Webbook
tb	848.47	K	Joback Method
tc	1059.89	K	Joback Method
tf	495.81	K	Joback Method
vc	0.978	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	778.72	J/molxK	848.47	Joback Method
cpg	838.13	J/molxK	1024.66	Joback Method
cpg	828.53	J/molxK	989.42	Joback Method
cpg	817.81	J/molxK	954.18	Joback Method
cpg	805.94	J/molxK	918.94	Joback Method
cpg	792.92	J/molxK	883.71	Joback Method
cpg	846.63	J/molxK	1059.89	Joback Method
dvisc	0.0000584	Paxs	848.47	Joback Method

dvisc	0.0000763	Paxs	789.69	Joback Method
dvisc	0.0001041	Paxs	730.92	Joback Method
dvisc	0.0001498	Paxs	672.14	Joback Method
dvisc	0.0002313	Paxs	613.36	Joback Method
dvisc	0.0003916	Paxs	554.59	Joback Method
dvisc	0.0007509	Paxs	495.81	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=U392031&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392031&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>m<sub>cvol</sub>:</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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