

# Glutaric acid, 4-acetylphenyl propyl ester

<b>Inchi:</b>	InChI=1S/C16H20O5/c1-3-11-20-15(18)5-4-6-16(19)21-14-9-7-13(8-10-14)12(2)17/h7-10
<b>InchiKey:</b>	VWCFNTFYSWJREF-UHFFFAOYSA-N
<b>Formula:</b>	C16H20O5
<b>SMILES:</b>	CCCOC(=O)CCCC(=O)Oc1ccc(C(C)=O)cc1
<b>Mol. weight [g/mol]:</b>	292.33

## Physical Properties

Property code	Value	Unit	Source
gf	-410.14	kJ/mol	Joback Method
hf	-750.69	kJ/mol	Joback Method
hfus	38.02	kJ/mol	Joback Method
hvap	79.21	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	2.918		Crippen Method
mcvol	228.990	ml/mol	McGowan Method
pc	1918.62	kPa	Joback Method
rinpol	2351.00		NIST Webbook
rinpol	2351.00		NIST Webbook
tb	803.59	K	Joback Method
tc	1011.99	K	Joback Method
tf	503.27	K	Joback Method
vc	0.877	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	664.45	J/molxK	803.59	Joback Method
cpg	677.91	J/molxK	838.32	Joback Method
cpg	690.35	J/molxK	873.06	Joback Method
cpg	701.78	J/molxK	907.79	Joback Method
cpg	712.20	J/molxK	942.53	Joback Method
cpg	721.63	J/molxK	977.26	Joback Method
cpg	730.08	J/molxK	1011.99	Joback Method
dvisc	0.0007206	Paxs	503.27	Joback Method

dvisc	0.0004370	Paxs	553.32	Joback Method
dvisc	0.0002880	Paxs	603.38	Joback Method
dvisc	0.0002023	Paxs	653.43	Joback Method
dvisc	0.0001494	Paxs	703.48	Joback Method
dvisc	0.0001149	Paxs	753.54	Joback Method
dvisc	0.0000913	Paxs	803.59	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=U359262&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359262&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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