

# Glutaric acid, di(4-methoxybenzyl) ester

**Inchi:** InChI=1S/C21H24O6/c1-24-18-10-6-16(7-11-18)14-26-20(22)4-3-5-21(23)27-15-17-8-12  
**InchiKey:** QNTSBSQSCVQURB-UHFFFAOYSA-N  
**Formula:** C21H24O6  
**SMILES:** COc1ccc(COC(=O)CCCC(=O)OCc2ccc(OC)cc2)cc1  
**Mol. weight [g/mol]:** 372.41

## Physical Properties

Property code	Value	Unit	Source
gf	-346.34	kJ/mol	Joback Method
hf	-780.69	kJ/mol	Joback Method
hfus	45.40	kJ/mol	Joback Method
hvap	91.35	kJ/mol	Joback Method
log10ws	-4.94		Crippen Method
logp	3.661		Crippen Method
mcvol	285.850	ml/mol	McGowan Method
pc	1545.13	kPa	Joback Method
rinpol	3060.00		NIST Webbook
rinpol	3060.00		NIST Webbook
tb	940.62	K	Joback Method
tc	1164.12	K	Joback Method
tf	593.09	K	Joback Method
vc	1.079	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	892.45	J/molxK	940.62	Joback Method
cpg	904.95	J/molxK	977.87	Joback Method
cpg	915.90	J/molxK	1015.12	Joback Method
cpg	925.31	J/molxK	1052.37	Joback Method
cpg	933.16	J/molxK	1089.62	Joback Method
cpg	939.47	J/molxK	1126.87	Joback Method
cpg	944.24	J/molxK	1164.12	Joback Method
dvisc	0.0002084	Paxs	593.09	Joback Method

dvisc	0.0001283	Paxs	651.01	Joback Method
dvisc	0.0000855	Paxs	708.93	Joback Method
dvisc	0.0000606	Paxs	766.86	Joback Method
dvisc	0.0000451	Paxs	824.78	Joback Method
dvisc	0.0000348	Paxs	882.70	Joback Method
dvisc	0.0000278	Paxs	940.62	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=U391749&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391749&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>

## 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>h<sub>vap</sub>:</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>log<sub>p</sub>:</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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