

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

Inchi:	InChI=1S/C22H26O4/c1-16(2)17(3)25-21(23)10-7-11-22(24)26-20-14-12-19(13-15-20)18
InchiKey:	JMRHEGMYRWXYPU-UHFFFAOYSA-N
Formula:	C22H26O4
SMILES:	CC(C)C(C)OC(=O)CCCC(=O)Oc1ccc(-c2ccccc2)cc1
Mol. weight [g/mol]:	354.44

## Physical Properties

Property code	Value	Unit	Source
gf	-123.17	kJ/mol	Joback Method
hf	-535.98	kJ/mol	Joback Method
hfus	38.96	kJ/mol	Joback Method
hvap	87.32	kJ/mol	Joback Method
log10ws	-6.47		Crippen Method
logp	5.017		Crippen Method
mvol	288.200	ml/mol	McGowan Method
pc	1508.15	kPa	Joback Method
rinpol	2760.00		NIST Webbook
rinpol	2760.00		NIST Webbook
tb	912.80	K	Joback Method
tc	1139.10	K	Joback Method
tf	517.38	K	Joback Method
vc	1.087	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	898.83	J/molxK	912.80	Joback Method
cpg	913.38	J/molxK	950.52	Joback Method
cpg	926.53	J/molxK	988.23	Joback Method
cpg	938.32	J/molxK	1025.95	Joback Method
cpg	948.81	J/molxK	1063.67	Joback Method
cpg	958.04	J/molxK	1101.39	Joback Method
cpg	966.05	J/molxK	1139.10	Joback Method
dvisc	0.0005200	Paxs	517.38	Joback Method

dvisc	0.0002580	Paxs	583.28	Joback Method
dvisc	0.0001476	Paxs	649.19	Joback Method
dvisc	0.0000936	Paxs	715.09	Joback Method
dvisc	0.0000641	Paxs	780.99	Joback Method
dvisc	0.0000465	Paxs	846.90	Joback Method
dvisc	0.0000354	Paxs	912.80	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=U390120&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390120&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</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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