

# Glutaric acid, 4-biphenyl nonyl ester

**Inchi:** InChI=1S/C26H34O4/c1-2-3-4-5-6-7-11-21-29-25(27)15-12-16-26(28)30-24-19-17-23(18)  
**InchiKey:** AFLZYSYXSKBPCB-UHFFFAOYSA-N  
**Formula:** C26H34O4  
**SMILES:** CCCCCCCCCOC(=O)CCCC(=O)Oc1ccc(-c2ccccc2)cc1  
**Mol. weight [g/mol]:** 410.55

## Physical Properties

Property code	Value	Unit	Source
gf	-84.61	kJ/mol	Joback Method
hf	-607.98	kJ/mol	Joback Method
hfus	56.36	kJ/mol	Joback Method
hvap	97.00	kJ/mol	Joback Method
log10ws	-8.27		Crippen Method
logp	6.723		Crippen Method
mcvol	344.560	ml/mol	McGowan Method
pc	1129.86	kPa	Joback Method
rinpol	3335.00		NIST Webbook
rinpol	3335.00		NIST Webbook
tb	1005.20	K	Joback Method
tc	1232.41	K	Joback Method
tf	592.46	K	Joback Method
vc	1.323	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1137.76	J/molxK	1005.20	Joback Method
cpg	1152.36	J/molxK	1043.07	Joback Method
cpg	1165.48	J/molxK	1080.94	Joback Method
cpg	1177.21	J/molxK	1118.81	Joback Method
cpg	1187.59	J/molxK	1156.67	Joback Method
cpg	1196.71	J/molxK	1194.54	Joback Method
cpg	1204.61	J/molxK	1232.41	Joback Method
dvisc	0.0002690	Paxs	592.46	Joback Method

dvisc	0.0001452	Paxs	661.25	Joback Method
dvisc	0.0000881	Paxs	730.04	Joback Method
dvisc	0.0000582	Paxs	798.83	Joback Method
dvisc	0.0000411	Paxs	867.62	Joback Method
dvisc	0.0000305	Paxs	936.41	Joback Method
dvisc	0.0000236	Paxs	1005.20	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360743&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360743&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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