

# Glutaric acid, cyclohexylmethyl 4-biphenyl ester

Inchi:	InChI=1S/C24H28O4/c25-23(27-18-19-8-3-1-4-9-19)12-7-13-24(26)28-22-16-14-21(15-1
InchiKey:	WTZNNYJYDOZYQW-UHFFFAOYSA-N
Formula:	C24H28O4
SMILES:	O=C(CCCC(=O)Oc1ccc(-c2ccccc2)cc1)OCC1CCCCC1
Mol. weight [g/mol]:	380.48

## Physical Properties

Property code	Value	Unit	Source
gf	-77.00	kJ/mol	Joback Method
hf	-512.38	kJ/mol	Joback Method
hfus	43.02	kJ/mol	Joback Method
hvap	92.97	kJ/mol	Joback Method
log10ws	-7.09		Crippen Method
logp	5.553		Crippen Method
mcvol	305.520	ml/mol	McGowan Method
pc	1504.65	kPa	Joback Method
rinpol	3199.00		NIST Webbook
rinpol	3199.00		NIST Webbook
tb	978.99	K	Joback Method
tc	1219.49	K	Joback Method
tf	577.30	K	Joback Method
vc	1.145	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1009.81	J/molxK	978.99	Joback Method
cpg	1064.69	J/molxK	1179.41	Joback Method
cpg	1056.91	J/molxK	1139.32	Joback Method
cpg	1047.60	J/molxK	1099.24	Joback Method
cpg	1036.70	J/molxK	1059.16	Joback Method
cpg	1024.12	J/molxK	1019.07	Joback Method
cpg	1071.02	J/molxK	1219.49	Joback Method
dvisc	0.0000327	Paxs	978.99	Joback Method

dvisc	0.0000423	Paxs	912.04	Joback Method
dvisc	0.0000571	Paxs	845.09	Joback Method
dvisc	0.0000811	Paxs	778.14	Joback Method
dvisc	0.0001230	Paxs	711.20	Joback Method
dvisc	0.0002035	Paxs	644.25	Joback Method
dvisc	0.0003785	Paxs	577.30	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=U390126&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390126&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>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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