

# Glutaric acid, 2,3-dichlorophenyl 4-biphenyl ester

Inchi:	InChI=1S/C23H18Cl2O4/c24-19-8-4-9-20(23(19)25)29-22(27)11-5-10-21(26)28-18-14-12
InchiKey:	TZVPTAKELRUGEK-UHFFFAOYSA-N
Formula:	C23H18Cl2O4
SMILES:	O=C(CCCC(=O)Oc1cccc(Cl)c1Cl)Oc1ccc(-c2ccccc2)cc1
Mol. weight [g/mol]:	429.29

## Physical Properties

Property code	Value	Unit	Source
gf	-40.58	kJ/mol	Joback Method
hf	-363.95	kJ/mol	Joback Method
hfus	50.25	kJ/mol	Joback Method
hvap	102.69	kJ/mol	Joback Method
log10ws	-8.14		Crippen Method
logp	6.342		Crippen Method
mvol	303.010	ml/mol	McGowan Method
pc	1652.46	kPa	Joback Method
rinpol	3533.00		NIST Webbook
rinpol	3533.00		NIST Webbook
tb	1048.06	K	Joback Method
tc	1302.77	K	Joback Method
tf	669.95	K	Joback Method
vc	1.145	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	884.60	J/molxK	1048.06	Joback Method
cpg	893.42	J/molxK	1090.51	Joback Method
cpg	900.81	J/molxK	1132.96	Joback Method
cpg	906.86	J/molxK	1175.42	Joback Method
cpg	911.61	J/molxK	1217.87	Joback Method
cpg	915.16	J/molxK	1260.32	Joback Method
cpg	917.56	J/molxK	1302.77	Joback Method
dvisc	0.0001913	Paxs	669.95	Joback Method

dvisc	0.0001220	Paxs	732.97	Joback Method
dvisc	0.0000836	Paxs	795.99	Joback Method
dvisc	0.0000605	Paxs	859.00	Joback Method
dvisc	0.0000458	Paxs	922.02	Joback Method
dvisc	0.0000359	Paxs	985.04	Joback Method
dvisc	0.0000290	Paxs	1048.06	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=U390130&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390130&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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