

# Glutaric acid, 2-chloro-6-fluorophenyl 4-biphenyl ester

<b>Inchi:</b>	InChI=1S/C23H18ClFO4/c24-19-8-4-9-20(25)23(19)29-22(27)11-5-10-21(26)28-18-14-12
<b>InchiKey:</b>	GFNVBNFYJWTFI-UHFFFAOYSA-N
<b>Formula:</b>	C23H18ClFO4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1c(F)ccc1Cl)Oc1ccc(-c2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	412.84

## Physical Properties

Property code	Value	Unit	Source
gf	-223.46	kJ/mol	Joback Method
hf	-544.32	kJ/mol	Joback Method
hfus	49.13	kJ/mol	Joback Method
hvap	97.49	kJ/mol	Joback Method
log10ws	-7.79		Crippen Method
logp	5.827		Crippen Method
mvol	292.540	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
rinpol	3263.00		NIST Webbook
rinpol	3263.00		NIST Webbook
tb	1009.90	K	Joback Method
tc	1255.13	K	Joback Method
tf	640.62	K	Joback Method
vc	1.115	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.22	J/molxK	1009.90	Joback Method
cpg	884.13	J/molxK	1050.77	Joback Method
cpg	892.64	J/molxK	1091.64	Joback Method
cpg	899.80	J/molxK	1132.51	Joback Method
cpg	905.68	J/molxK	1173.39	Joback Method
cpg	910.34	J/molxK	1214.26	Joback Method
cpg	913.84	J/molxK	1255.13	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390127&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390127&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>
<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>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>hvp:</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>rinp:</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

Latest version available from:

<https://www.chemeo.com/cid/99-216-3/Glutaric-acid-2-chloro-6-fluorophenyl-4-biphenyl-ester.pdf>

Generated by Cheméo on 2024-04-25 05:12:06.286587444 +0000 UTC m=+16311175.207164759.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.