

# Glutaric acid, naphth-2-ylmethyl 2-chloro-5-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C23H21ClO4/c1-16-9-12-20(24)21(13-16)28-23(26)8-4-7-22(25)27-15-17-10-1
<b>InchiKey:</b>	RYMIZFMTZULDMM-UHFFFAOYSA-N
<b>Formula:</b>	C23H21ClO4
<b>SMILES:</b>	<chem>Cc1ccc(Cl)c(OC(=O)CCCC(=O)OCc2ccc3ccccc3c2)c1</chem>
<b>Mol. weight [g/mol]:</b>	396.86

## Physical Properties

Property code	Value	Unit	Source
gf	-34.41	kJ/mol	Joback Method
hf	-393.67	kJ/mol	Joback Method
hfus	49.03	kJ/mol	Joback Method
hvap	97.67	kJ/mol	Joback Method
log10ws	-7.40		Crippen Method
logp	5.621		Crippen Method
mcvol	295.070	ml/mol	McGowan Method
pc	1588.54	kPa	Joback Method
rinpol	3352.00		NIST Webbook
rinpol	3352.00		NIST Webbook
tb	1002.93	K	Joback Method
tc	1244.64	K	Joback Method
tf	646.31	K	Joback Method
vc	1.127	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	893.16	J/molxK	1002.93	Joback Method
cpg	904.72	J/molxK	1043.21	Joback Method
cpg	915.11	J/molxK	1083.50	Joback Method
cpg	924.43	J/molxK	1123.78	Joback Method
cpg	932.75	J/molxK	1164.07	Joback Method
cpg	940.15	J/molxK	1204.35	Joback Method
cpg	946.70	J/molxK	1244.64	Joback Method
dvisc	0.0003611	Paxs	646.31	Joback Method

dvisc	0.0002443	Paxs	705.75	Joback Method
dvisc	0.0001756	Paxs	765.18	Joback Method
dvisc	0.0001324	Paxs	824.62	Joback Method
dvisc	0.0001036	Paxs	884.06	Joback Method
dvisc	0.0000837	Paxs	943.49	Joback Method
dvisc	0.0000693	Paxs	1002.93	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393434&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393434&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>hvap:</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>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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