

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

<b>Inchi:</b>	InChI=1S/C23H22O4/c1-17-7-2-5-10-21(17)27-23(25)12-6-11-22(24)26-16-18-13-14-19-
<b>InchiKey:</b>	DLOOHMAXXZTOEV-UHFFFAOYSA-N
<b>Formula:</b>	C23H22O4
<b>SMILES:</b>	<chem>Cc1ccccc1OC(=O)CCCC(=O)OCc1ccc2ccccc2c1</chem>
<b>Mol. weight [g/mol]:</b>	362.42

## Physical Properties

Property code	Value	Unit	Source
gf	-12.85	kJ/mol	Joback Method
hf	-366.46	kJ/mol	Joback Method
hfus	45.22	kJ/mol	Joback Method
hvap	92.62	kJ/mol	Joback Method
log10ws	-6.71		Crippen Method
logp	4.967		Crippen Method
mvol	282.830	ml/mol	McGowan Method
pc	1656.49	kPa	Joback Method
rinpol	3138.00		NIST Webbook
rinpol	3138.00		NIST Webbook
tb	960.52	K	Joback Method
tc	1197.59	K	Joback Method
tf	603.87	K	Joback Method
vc	1.077	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.15	J/molxK	960.52	Joback Method
cpg	887.05	J/molxK	1000.03	Joback Method
cpg	898.77	J/molxK	1039.54	Joback Method
cpg	909.37	J/molxK	1079.06	Joback Method
cpg	918.94	J/molxK	1118.57	Joback Method
cpg	927.56	J/molxK	1158.08	Joback Method
cpg	935.31	J/molxK	1197.59	Joback Method
dvisc	0.0004574	Paxs	603.87	Joback Method

dvisc	0.0002984	Paxs	663.31	Joback Method
dvisc	0.0002088	Paxs	722.75	Joback Method
dvisc	0.0001542	Paxs	782.19	Joback Method
dvisc	0.0001189	Paxs	841.64	Joback Method
dvisc	0.0000949	Paxs	901.08	Joback Method
dvisc	0.0000779	Paxs	960.52	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391820&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391820&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>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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