

# Glutaric acid, naphth-2-ylmethyl 2-methylhex-3-yl ester

Inchi:	InChI=1S/C23H30O4/c1-4-8-21(17(2)3)27-23(25)12-7-11-22(24)26-16-18-13-14-19-9-5-6
InchiKey:	FNDBTBGGKLXDBC-UHFFFAOYSA-N
Formula:	C23H30O4
SMILES:	CCCC(OC(=O)CCCC(=O)OCc1ccc2ccccc2c1)C(C)C
Mol. weight [g/mol]:	370.48

## Physical Properties

Property code	Value	Unit	Source
gf	-120.51	kJ/mol	Joback Method
hf	-602.08	kJ/mol	Joback Method
hfus	44.52	kJ/mol	Joback Method
hvap	88.91	kJ/mol	Joback Method
log10ws	-6.77		Crippen Method
logp	5.421		Crippen Method
mcvol	306.590	ml/mol	McGowan Method
pc	1315.61	kPa	Joback Method
rinpol	2851.00		NIST Webbook
rinpol	2851.00		NIST Webbook
tb	927.98	K	Joback Method
tc	1146.03	K	Joback Method
tf	534.93	K	Joback Method
vc	1.173	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	980.58	J/molxK	927.98	Joback Method
cpg	995.85	J/molxK	964.32	Joback Method
cpg	1009.93	J/molxK	1000.66	Joback Method
cpg	1022.88	J/molxK	1037.01	Joback Method
cpg	1034.76	J/molxK	1073.35	Joback Method
cpg	1045.63	J/molxK	1109.69	Joback Method
cpg	1055.56	J/molxK	1146.03	Joback Method
dvisc	0.0006384	Paxs	534.93	Joback Method

dvisc	0.0003481	Paxs	600.44	Joback Method
dvisc	0.0002139	Paxs	665.95	Joback Method
dvisc	0.0001434	Paxs	731.46	Joback Method
dvisc	0.0001027	Paxs	796.96	Joback Method
dvisc	0.0000773	Paxs	862.47	Joback Method
dvisc	0.0000606	Paxs	927.98	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393868&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393868&amp;Units=SI</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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