

# Glutaric acid, cyclopentyl dodec-2-en-1-yl ester

Inchi:	InChI=1S/C22H38O4/c1-2-3-4-5-6-7-8-9-10-13-19-25-21(23)17-14-18-22(24)26-20-15-11
InchiKey:	OLBRTPJTXDNGQM-JLHYYAGUSA-N
Formula:	C22H38O4
SMILES:	CCCCCCCCC=CCOC(=O)CCCC(=O)OC1CCCC1
Mol. weight [g/mol]:	366.53

## Physical Properties

Property code	Value	Unit	Source
gf	-216.71	kJ/mol	Joback Method
hf	-809.31	kJ/mol	Joback Method
hfus	52.45	kJ/mol	Joback Method
hvap	83.09	kJ/mol	Joback Method
log10ws	-6.62		Crippen Method
logp	5.883		Crippen Method
mvol	320.560	ml/mol	McGowan Method
pc	1106.68	kPa	Joback Method
rinpol	2629.00		NIST Webbook
rinpol	2629.00		NIST Webbook
tb	874.78	K	Joback Method
tc	1074.81	K	Joback Method
tf	487.84	K	Joback Method
vc	1.236	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1058.43	J/molxK	874.78	Joback Method
cpg	1077.04	J/molxK	908.12	Joback Method
cpg	1094.41	J/molxK	941.46	Joback Method
cpg	1110.60	J/molxK	974.80	Joback Method
cpg	1125.65	J/molxK	1008.14	Joback Method
cpg	1139.62	J/molxK	1041.47	Joback Method
cpg	1152.54	J/molxK	1074.81	Joback Method
dvisc	0.0007922	Paxs	487.84	Joback Method

dvisc	0.0003858	Paxs	552.33	Joback Method
dvisc	0.0002184	Paxs	616.82	Joback Method
dvisc	0.0001377	Paxs	681.31	Joback Method
dvisc	0.0000940	Paxs	745.80	Joback Method
dvisc	0.0000682	Paxs	810.29	Joback Method
dvisc	0.0000519	Paxs	874.78	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=U405402&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405402&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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