

# Glutaric acid, 2-(cyclohexyl)ethyl dodec-2-en-1-yl ester

**Inchi:** InChI=1S/C25H44O4/c1-2-3-4-5-6-7-8-9-10-14-21-28-24(26)18-15-19-25(27)29-22-20-23  
**InchiKey:** LTVCRDZRNMXXPX-GXDHUFHOSA-N  
**Formula:** C25H44O4  
**SMILES:** CCCCCCCCCC=CCOC(=O)CCCC(=O)OCCC1CCCCC1  
**Mol. weight [g/mol]:** 408.61

## Physical Properties

Property code	Value	Unit	Source
gf	-203.55	kJ/mol	Joback Method
hf	-877.39	kJ/mol	Joback Method
hfus	58.12	kJ/mol	Joback Method
hvap	89.94	kJ/mol	Joback Method
log10ws	-7.52		Crippen Method
logp	6.910		Crippen Method
mvol	362.830	ml/mol	McGowan Method
pc	935.77	kPa	Joback Method
rinpol	2909.00		NIST Webbook
rinpol	2909.00		NIST Webbook
tb	947.69	K	Joback Method
tc	1160.29	K	Joback Method
tf	518.13	K	Joback Method
vc	1.397	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1250.71	J/molxK	947.69	Joback Method
cpg	1269.99	J/molxK	983.12	Joback Method
cpg	1287.75	J/molxK	1018.56	Joback Method
cpg	1304.05	J/molxK	1053.99	Joback Method
cpg	1318.94	J/molxK	1089.43	Joback Method
cpg	1332.48	J/molxK	1124.86	Joback Method
cpg	1344.74	J/molxK	1160.29	Joback Method
dvisc	0.0004851	Paxs	518.13	Joback Method

dvisc	0.0002135	Paxs	589.72	Joback Method
dvisc	0.0001123	Paxs	661.32	Joback Method
dvisc	0.0000669	Paxs	732.91	Joback Method
dvisc	0.0000438	Paxs	804.50	Joback Method
dvisc	0.0000307	Paxs	876.10	Joback Method
dvisc	0.0000227	Paxs	947.69	Joback Method

## Sources

<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=U405423&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405423&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## 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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