

# Glutaric acid, 3,4-dimethylcyclohexyl dodec-2-en-1-yl ester

<b>Inchi:</b>	InChI=1S/C25H44O4/c1-4-5-6-7-8-9-10-11-12-13-19-28-24(26)15-14-16-25(27)29-23-18
<b>InchiKey:</b>	LBLKYXKNAWCXTQ-OUKQBFOZSA-N
<b>Formula:</b>	C25H44O4
<b>SMILES:</b>	CCCCCCCCC=CCOC(=O)CCCC(=O)OC1CCC(C)C(C)C1
<b>Mol. weight [g/mol]:</b>	408.61

## Physical Properties

Property code	Value	Unit	Source
gf	-218.97	kJ/mol	Joback Method
hf	-918.07	kJ/mol	Joback Method
hfus	60.26	kJ/mol	Joback Method
hvap	89.33	kJ/mol	Joback Method
log10ws	-7.39		Crippen Method
logp	6.765		Crippen Method
mvol	362.830	ml/mol	McGowan Method
pc	899.10	kPa	Joback Method
rinpol	2887.00		NIST Webbook
rinpol	2887.00		NIST Webbook
tb	938.35	K	Joback Method
tc	1148.99	K	Joback Method
tf	509.65	K	Joback Method
vc	1.395	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1258.51	J/molxK	938.35	Joback Method
cpg	1278.17	J/molxK	973.46	Joback Method
cpg	1296.20	J/molxK	1008.56	Joback Method
cpg	1312.62	J/molxK	1043.67	Joback Method
cpg	1327.49	J/molxK	1078.77	Joback Method
cpg	1340.84	J/molxK	1113.88	Joback Method
cpg	1352.72	J/molxK	1148.99	Joback Method
dvisc	0.0005915	Paxs	509.65	Joback Method

dvisc	0.0002864	Paxs	581.10	Joback Method
dvisc	0.0001626	Paxs	652.55	Joback Method
dvisc	0.0001032	Paxs	724.00	Joback Method
dvisc	0.0000711	Paxs	795.45	Joback Method
dvisc	0.0000520	Paxs	866.90	Joback Method
dvisc	0.0000400	Paxs	938.35	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=U405434&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405434&amp;Units=SI</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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