

# Glutaric acid, pentyl tetradec-3-enyl ester

**Inchi:** InChI=1S/C24H44O4/c1-3-5-7-8-9-10-11-12-13-14-15-17-22-28-24(26)20-18-19-23(25)2  
**InchiKey:** UYDCJQSXSSGQNG-CCEZHUSRSA-N  
**Formula:** C24H44O4  
**SMILES:** CCCCCCCCCC=CCCOC(=O)CCCC(=O)OCCCCC  
**Mol. weight [g/mol]:** 396.60

## Physical Properties

Property code	Value	Unit	Source
gf	-236.42	kJ/mol	Joback Method
hf	-911.07	kJ/mol	Joback Method
hfus	63.69	kJ/mol	Joback Method
hvap	87.29	kJ/mol	Joback Method
log10ws	-7.45		Crippen Method
logp	6.910		Crippen Method
mcvol	359.600	ml/mol	McGowan Method
pc	876.36	kPa	Joback Method
rinpola	2813.00		NIST Webbook
tb	905.26	K	Joback Method
tc	1108.91	K	Joback Method
tf	499.48	K	Joback Method
vc	1.407	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1190.55	J/molxK	905.26	Joback Method
cpg	1275.94	J/molxK	1074.97	Joback Method
cpg	1261.26	J/molxK	1041.03	Joback Method
cpg	1245.42	J/molxK	1007.08	Joback Method
cpg	1228.39	J/molxK	973.14	Joback Method
cpg	1210.11	J/molxK	939.20	Joback Method
cpg	1289.52	J/molxK	1108.91	Joback Method
dvisc	0.0000257	Paxs	905.26	Joback Method
dvisc	0.0000345	Paxs	837.63	Joback Method

dvisc	0.0000486	Paxs	770.00	Joback Method
dvisc	0.0000733	Paxs	702.37	Joback Method
dvisc	0.0001206	Paxs	634.74	Joback Method
dvisc	0.0002235	Paxs	567.11	Joback Method
dvisc	0.0004895	Paxs	499.48	Joback Method

## Sources

<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=U359897&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359897&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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