

# Glutaric acid, cyclohexylmethyl 2,6-dimethylnon-1-en-3-yn-5-yl ester

**Inchi:** InChI=1S/C23H36O4/c1-5-10-19(4)21(16-15-18(2)3)27-23(25)14-9-13-22(24)26-17-20-1  
**InchiKey:** FYUYZFFQOPKBZRK-UHFFFAOYSA-N  
**Formula:** C23H36O4  
**SMILES:** C=C(C)C#CC(OC(=O)CCCC(=O)OCC1CCCCC1)C(C)CCC  
**Mol. weight [g/mol]:** 376.53

## Physical Properties

Property code	Value	Unit	Source
gf	-23.40	kJ/mol	Joback Method
hf	-575.95	kJ/mol	Joback Method
hfus	46.22	kJ/mol	Joback Method
hvap	86.32	kJ/mol	Joback Method
log10ws	-6.35		Crippen Method
logp	5.208		Crippen Method
mvol	326.050	ml/mol	McGowan Method
pc	1184.16	kPa	Joback Method
rinpol	2486.00		NIST Webbook
rinpol	2486.00		NIST Webbook
tb	902.45	K	Joback Method
tc	1117.25	K	Joback Method
tf	561.05	K	Joback Method
vc	1.236	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1070.90	J/molxK	902.45	Joback Method
cpg	1089.19	J/molxK	938.25	Joback Method
cpg	1105.97	J/molxK	974.05	Joback Method
cpg	1121.27	J/molxK	1009.85	Joback Method
cpg	1135.14	J/molxK	1045.65	Joback Method
cpg	1147.62	J/molxK	1081.45	Joback Method
cpg	1158.74	J/molxK	1117.25	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=U393967&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393967&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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>rinpola:</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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