

# Glutaric acid, 1-(cyclohex-2-enyl)hex-3-yl cyclohexylmethyl ester

Inchi:	InChI=1S/C24H40O4/c1-2-10-22(18-17-20-11-5-3-6-12-20)28-24(26)16-9-15-23(25)27-1
InchiKey:	GUDZARSKLUBCKR-UHFFFAOYSA-N
Formula:	C24H40O4
SMILES:	CCCC(CCC1C=CCCC1)OC(=O)CCCC(=O)OCC1CCCCC1
Mol. weight [g/mol]:	392.57

## Physical Properties

Property code	Value	Unit	Source
gf	-240.22	kJ/mol	Joback Method
hf	-867.15	kJ/mol	Joback Method
hfus	44.86	kJ/mol	Joback Method
hvap	88.09	kJ/mol	Joback Method
log10ws	-6.87		Crippen Method
logp	6.129		Crippen Method
mvol	337.880	ml/mol	McGowan Method
pc	1129.10	kPa	Joback Method
rinpol	2813.00		NIST Webbook
rinpol	2813.00		NIST Webbook
tb	938.92	K	Joback Method
tc	1156.52	K	Joback Method
tf	505.08	K	Joback Method
vc	1.274	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1181.65	J/molxK	938.92	Joback Method
cpg	1200.24	J/molxK	975.19	Joback Method
cpg	1217.06	J/molxK	1011.45	Joback Method
cpg	1232.13	J/molxK	1047.72	Joback Method
cpg	1245.52	J/molxK	1083.99	Joback Method
cpg	1257.27	J/molxK	1120.25	Joback Method
cpg	1267.43	J/molxK	1156.52	Joback Method
dvisc	0.0007566	Paxs	505.08	Joback Method

dvisc	0.0003179	Paxs	577.39	Joback Method
dvisc	0.0001620	Paxs	649.69	Joback Method
dvisc	0.0000945	Paxs	722.00	Joback Method
dvisc	0.0000608	Paxs	794.31	Joback Method
dvisc	0.0000421	Paxs	866.61	Joback Method
dvisc	0.0000309	Paxs	938.92	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=U405518&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405518&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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