

# Glutaric acid, 2-(cyclohexyl)ethyl 2-methylpent-3-yl ester

<b>Inchi:</b>	InChI=1S/C19H34O4/c1-4-17(15(2)3)23-19(21)12-8-11-18(20)22-14-13-16-9-6-5-7-10-16
<b>InchiKey:</b>	NNBHGPRWTPMSJK-UHFFFAOYSA-N
<b>Formula:</b>	C19H34O4
<b>SMILES:</b>	CCC(OC(=O)CCCC(=O)OCCC1CCCCC1)C(C)C
<b>Mol. weight [g/mol]:</b>	326.47

## Physical Properties

Property code	Value	Unit	Source
gf	-339.17	kJ/mol	Joback Method
hf	-881.33	kJ/mol	Joback Method
hfus	35.33	kJ/mol	Joback Method
hvap	75.85	kJ/mol	Joback Method
log10ws	-5.02		Crippen Method
logp	4.648		Crippen Method
mcvol	282.590	ml/mol	McGowan Method
pc	1342.74	kPa	Joback Method
rinpol	2168.00		NIST Webbook
rinpol	2168.00		NIST Webbook
tb	805.37	K	Joback Method
tc	1004.36	K	Joback Method
tf	425.59	K	Joback Method
vc	1.069	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	906.75	J/molxK	805.37	Joback Method
cpg	925.89	J/molxK	838.54	Joback Method
cpg	943.73	J/molxK	871.70	Joback Method
cpg	960.27	J/molxK	904.87	Joback Method
cpg	975.54	J/molxK	938.03	Joback Method
cpg	989.57	J/molxK	971.20	Joback Method
cpg	1002.36	J/molxK	1004.36	Joback Method
dvisc	0.0015521	Paxs	425.59	Joback Method

dvisc	0.0006163	Paxs	488.89	Joback Method
dvisc	0.0003025	Paxs	552.18	Joback Method
dvisc	0.0001718	Paxs	615.48	Joback Method
dvisc	0.0001085	Paxs	678.78	Joback Method
dvisc	0.0000741	Paxs	742.07	Joback Method
dvisc	0.0000537	Paxs	805.37	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405416&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405416&amp;Units=SI</a>
<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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/89-472-0/Glutaric-acid-2-cyclohexyl-ethyl-2-methylpent-3-yl-ester.pdf>

Generated by Cheméo on 2024-05-03 08:30:28.403901744 +0000 UTC m=+17014277.324479054.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.