

# Glutaric acid, cyclohexylmethyl 2,4-dimethylpent-3-yl ester

Inchi:	InChI=1S/C19H34O4/c1-14(2)19(15(3)4)23-18(21)12-8-11-17(20)22-13-16-9-6-5-7-10-16
InchiKey:	YZKQHJSZAPRAPY-UHFFFAOYSA-N
Formula:	C19H34O4
SMILES:	CC(C)C(OC(=O)CCCC(=O)OCC1CCCCC1)C(C)C
Mol. weight [g/mol]:	326.47

## Physical Properties

Property code	Value	Unit	Source
gf	-341.61	kJ/mol	Joback Method
hf	-886.61	kJ/mol	Joback Method
hfus	31.81	kJ/mol	Joback Method
hvap	75.47	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	4.504		Crippen Method
mcvol	282.590	ml/mol	McGowan Method
pc	1350.65	kPa	Joback Method
rinpol	2177.00		NIST Webbook
rinpol	2177.00		NIST Webbook
tb	804.93	K	Joback Method
tc	1006.12	K	Joback Method
tf	410.59	K	Joback Method
vc	1.062	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	907.23	J/molxK	804.93	Joback Method
cpg	926.59	J/molxK	838.46	Joback Method
cpg	944.60	J/molxK	871.99	Joback Method
cpg	961.27	J/molxK	905.52	Joback Method
cpg	976.64	J/molxK	939.05	Joback Method
cpg	990.72	J/molxK	972.59	Joback Method
cpg	1003.53	J/molxK	1006.12	Joback Method
dvisc	0.0019316	Paxs	410.59	Joback Method

dvisc	0.0006875	Paxs	476.31	Joback Method
dvisc	0.0003144	Paxs	542.04	Joback Method
dvisc	0.0001703	Paxs	607.76	Joback Method
dvisc	0.0001039	Paxs	673.48	Joback Method
dvisc	0.0000693	Paxs	739.21	Joback Method
dvisc	0.0000493	Paxs	804.93	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=U393479&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393479&amp;Units=SI</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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