

# Glutaric acid, di(2-methylhex-3-yl) ester

**Inchi:** InChI=1S/C19H36O4/c1-7-10-16(14(3)4)22-18(20)12-9-13-19(21)23-17(11-8-2)15(5)6/h1-19  
**InchiKey:** XVMWQYYVSVLKNR-UHFFFAOYSA-N  
**Formula:** C19H36O4  
**SMILES:** CCCC(OC(=O)CCCC(=O)OC(CCC)C(C)C)C(C)C  
**Mol. weight [g/mol]:** 328.49

## Physical Properties

Property code	Value	Unit	Source
gf	-368.50	kJ/mol	Joback Method
hf	-946.21	kJ/mol	Joback Method
hfus	36.45	kJ/mol	Joback Method
hvap	74.65	kJ/mol	Joback Method
log10ws	-5.24		Crippen Method
logp	4.893		Crippen Method
mcvol	293.450	ml/mol	McGowan Method
pc	1174.44	kPa	Joback Method
rinpol	1935.00		NIST Webbook
rinpol	1935.00		NIST Webbook
tb	784.94	K	Joback Method
tc	970.70	K	Joback Method
tf	388.21	K	Joback Method
vc	1.123	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	910.84	J/mol×K	784.94	Joback Method
cpg	929.17	J/mol×K	815.90	Joback Method
cpg	946.44	J/mol×K	846.86	Joback Method
cpg	962.66	J/mol×K	877.82	Joback Method
cpg	977.85	J/mol×K	908.78	Joback Method
cpg	992.02	J/mol×K	939.74	Joback Method
cpg	1005.19	J/mol×K	970.70	Joback Method
dvisc	0.0021477	Paxs	388.21	Joback Method

dvisc	0.0007008	Paxs	454.33	Joback Method
dvisc	0.0003040	Paxs	520.45	Joback Method
dvisc	0.0001591	Paxs	586.58	Joback Method
dvisc	0.0000950	Paxs	652.70	Joback Method
dvisc	0.0000624	Paxs	718.82	Joback Method
dvisc	0.0000439	Paxs	784.94	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=U393871&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393871&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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