

# Glutaric acid, oct-1-en-3-yl 3-methylbut-2-yl ester

Inchi:	InChI=1S/C18H32O4/c1-6-8-9-11-16(7-2)22-18(20)13-10-12-17(19)21-15(5)14(3)4/h7,14
InchiKey:	FNLWZXMRDLDNAGU-UHFFFAOYSA-N
Formula:	C18H32O4
SMILES:	C=CC(CCCCC)OC(=O)CCCC(=O)OC(C)C(C)C
Mol. weight [g/mol]:	312.44

## Physical Properties

Property code	Value	Unit	Source
gf	-286.64	kJ/mol	Joback Method
hf	-794.86	kJ/mol	Joback Method
hfus	36.10	kJ/mol	Joback Method
hvap	72.14	kJ/mol	Joback Method
log10ws	-4.92		Crippen Method
logp	4.423		Crippen Method
mcvol	275.060	ml/mol	McGowan Method
pc	1286.51	kPa	Joback Method
rinpol	1933.00		NIST Webbook
rinpol	1933.00		NIST Webbook
tb	759.18	K	Joback Method
tc	943.63	K	Joback Method
tf	390.18	K	Joback Method
vc	1.054	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	825.17	J/mol×K	759.18	Joback Method
cpg	842.53	J/mol×K	789.92	Joback Method
cpg	858.93	J/mol×K	820.66	Joback Method
cpg	874.38	J/mol×K	851.41	Joback Method
cpg	888.88	J/mol×K	882.15	Joback Method
cpg	902.47	J/mol×K	912.89	Joback Method
cpg	915.15	J/mol×K	943.63	Joback Method
dvisc	0.0018969	Paxs	390.18	Joback Method

dvisc	0.0007164	Paxs	451.68	Joback Method
dvisc	0.0003417	Paxs	513.18	Joback Method
dvisc	0.0001910	Paxs	574.68	Joback Method
dvisc	0.0001194	Paxs	636.18	Joback Method
dvisc	0.0000811	Paxs	697.68	Joback Method
dvisc	0.0000587	Paxs	759.18	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=U405346&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405346&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

Latest version available from:

<https://www.chemeo.com/cid/88-933-9/Glutaric-acid-oct-1-en-3-yl-3-methylbut-2-yl-ester.pdf>

Generated by Cheméo on 2024-04-23 08:52:43.191870154 +0000 UTC m=+16151612.112447465.

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