

# Glutaric acid, 3-oxobut-2-yl propyl ester

<b>Inchi:</b>	InChI=1S/C12H20O5/c1-4-8-16-11(14)6-5-7-12(15)17-10(3)9(2)13/h10H,4-8H2,1-3H3
<b>InchiKey:</b>	HXZOSLZHGCBBTQ-UHFFFAOYSA-N
<b>Formula:</b>	C12H20O5
<b>SMILES:</b>	CCCOC(=O)CCCC(=O)OC(C)C(C)=O
<b>Mol. weight [g/mol]:</b>	244.28

## Physical Properties

Property code	Value	Unit	Source
gf	-549.04	kJ/mol	Joback Method
hf	-898.47	kJ/mol	Joback Method
hfus	30.49	kJ/mol	Joback Method
hvap	66.98	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.631		Crippen Method
mcvol	196.390	ml/mol	McGowan Method
pc	2053.03	kPa	Joback Method
rinqol	1671.00		NIST Webbook
tb	679.97	K	Joback Method
tc	867.54	K	Joback Method
tf	404.25	K	Joback Method
vc	0.755	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	536.62	J/molxK	679.97	Joback Method
cpg	550.33	J/molxK	711.23	Joback Method
cpg	563.33	J/molxK	742.49	Joback Method
cpg	575.61	J/molxK	773.75	Joback Method
cpg	587.17	J/molxK	805.02	Joback Method
cpg	598.01	J/molxK	836.28	Joback Method
cpg	608.13	J/molxK	867.54	Joback Method
dvisc	0.0016566	Paxs	404.25	Joback Method
dvisc	0.0008899	Paxs	450.20	Joback Method

dvisc	0.0005364	Paxs	496.16	Joback Method
dvisc	0.0003523	Paxs	542.11	Joback Method
dvisc	0.0002471	Paxs	588.06	Joback Method
dvisc	0.0001824	Paxs	634.02	Joback Method
dvisc	0.0001403	Paxs	679.97	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=U359701&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359701&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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