

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

<b>Inchi:</b>	InChI=1S/C20H36O5/c1-4-5-6-7-8-9-10-11-12-16-24-19(22)14-13-15-20(23)25-18(3)17(2)
<b>InchiKey:</b>	VUBQIVHSYXOKGO-UHFFFAOYSA-N
<b>Formula:</b>	C20H36O5
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCC(=O)OC(C)C(C)=O
<b>Mol. weight [g/mol]:</b>	356.50

## Physical Properties

Property code	Value	Unit	Source
gf	-481.68	kJ/mol	Joback Method
hf	-1063.59	kJ/mol	Joback Method
hfus	51.21	kJ/mol	Joback Method
hvap	84.78	kJ/mol	Joback Method
log10ws	-5.31		Crippen Method
logp	4.751		Crippen Method
mcvol	309.110	ml/mol	McGowan Method
pc	1129.86	kPa	Joback Method
rinpol	2481.00		NIST Webbook
tb	863.01	K	Joback Method
tc	1057.77	K	Joback Method
tf	494.41	K	Joback Method
vc	1.204	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	992.39	J/molxK	863.01	Joback Method
cpg	1009.24	J/molxK	895.47	Joback Method
cpg	1024.93	J/molxK	927.93	Joback Method
cpg	1039.49	J/molxK	960.39	Joback Method
cpg	1052.93	J/molxK	992.85	Joback Method
cpg	1065.27	J/molxK	1025.31	Joback Method
cpg	1076.52	J/molxK	1057.77	Joback Method
dvisc	0.0007439	Paxs	494.41	Joback Method
dvisc	0.0003626	Paxs	555.84	Joback Method

dvisc	0.0002040	Paxs	617.28	Joback Method
dvisc	0.0001273	Paxs	678.71	Joback Method
dvisc	0.0000859	Paxs	740.14	Joback Method
dvisc	0.0000616	Paxs	801.58	Joback Method
dvisc	0.0000463	Paxs	863.01	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=U359711&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359711&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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