

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

<b>Inchi:</b>	InChI=1S/C13H20O4/c1-5-10(3)16-12(14)8-7-9-13(15)17-11(4)6-2/h5-6,10-11H,1-2,7-9H
<b>InchiKey:</b>	LMIRESYEZCWSNC-UHFFFAOYSA-N
<b>Formula:</b>	C13H20O4
<b>SMILES:</b>	C=CC(C)OC(=O)CCCC(=O)OC(C)C=C
<b>Mol. weight [g/mol]:</b>	240.30

## Physical Properties

Property code	Value	Unit	Source
gf	-238.46	kJ/mol	Joback Method
hf	-560.95	kJ/mol	Joback Method
hfus	25.39	kJ/mol	Joback Method
hvap	60.73	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.392		Crippen Method
mcvol	200.310	ml/mol	McGowan Method
pc	1933.83	kPa	Joback Method
rinpol	1462.00		NIST Webbook
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tb	641.90	K	Joback Method
tc	829.29	K	Joback Method
tf	347.07	K	Joback Method
vc	0.761	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	524.38	J/molxK	641.90	Joback Method
cpg	589.97	J/molxK	798.05	Joback Method
cpg	578.28	J/molxK	766.82	Joback Method
cpg	565.89	J/molxK	735.59	Joback Method
cpg	552.78	J/molxK	704.36	Joback Method
cpg	538.95	J/molxK	673.13	Joback Method
cpg	600.96	J/molxK	829.29	Joback Method
dvisc	0.0001282	Paxs	641.90	Joback Method

dvisc	0.0001706	Paxs	592.76	Joback Method
dvisc	0.0002392	Paxs	543.62	Joback Method
dvisc	0.0003588	Paxs	494.49	Joback Method
dvisc	0.0005883	Paxs	445.35	Joback Method
dvisc	0.0010905	Paxs	396.21	Joback Method
dvisc	0.0024077	Paxs	347.07	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405250&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405250&amp;Units=SI</a>
<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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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