

# Glutaric acid, ethyl 2-methylpent-3-yl ester

<b>Inchi:</b>	InChI=1S/C13H24O4/c1-5-11(10(3)4)17-13(15)9-7-8-12(14)16-6-2/h10-11H,5-9H2,1-4H3
<b>InchiKey:</b>	WWUZMNKAWSGVNT-UHFFFAOYSA-N
<b>Formula:</b>	C13H24O4
<b>SMILES:</b>	CCOC(=O)CCCC(=O)OC(CC)C(C)C
<b>Mol. weight [g/mol]:</b>	244.33

## Physical Properties

Property code	Value	Unit	Source
gf	-414.14	kJ/mol	Joback Method
hf	-811.81	kJ/mol	Joback Method
hfus	27.95	kJ/mol	Joback Method
hvap	62.07	kJ/mol	Joback Method
log10ws	-2.86		Crippen Method
logp	2.698		Crippen Method
mcvol	208.910	ml/mol	McGowan Method
pc	1798.51	kPa	Joback Method
rinpol	1663.00		NIST Webbook
rinpol	1583.00		NIST Webbook
tb	648.54	K	Joback Method
tc	830.39	K	Joback Method
tf	350.59	K	Joback Method
vc	0.799	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	569.26	J/mol×K	648.54	Joback Method
cpg	584.92	J/mol×K	678.85	Joback Method
cpg	599.84	J/mol×K	709.16	Joback Method
cpg	614.03	J/mol×K	739.46	Joback Method
cpg	627.48	J/mol×K	769.77	Joback Method
cpg	640.21	J/mol×K	800.08	Joback Method
cpg	652.22	J/mol×K	830.39	Joback Method
dvisc	0.0025317	Paxs	350.59	Joback Method

dvisc	0.0011034	Paxs	400.25	Joback Method
dvisc	0.0005777	Paxs	449.91	Joback Method
dvisc	0.0003440	Paxs	499.56	Joback Method
dvisc	0.0002249	Paxs	549.22	Joback Method
dvisc	0.0001578	Paxs	598.88	Joback Method
dvisc	0.0001169	Paxs	648.54	Joback Method

## Sources

<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=U359508&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359508&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>

## 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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