

# Glutaric acid, 2-norbornyl 3-methylbut-2-yl ester

Inchi:	InChI=1S/C17H28O4/c1-11(2)12(3)20-16(18)5-4-6-17(19)21-15-10-13-7-8-14(15)9-13/h1
InchiKey:	DWKHCGDPOAMCKH-UHFFFAOYSA-N
Formula:	C17H28O4
SMILES:	CC(C)C(C)OC(=O)CCCC(=O)OC1CC2CCC1C2
Mol. weight [g/mol]:	296.40

## Physical Properties

Property code	Value	Unit	Source
gf	-278.77	kJ/mol	Joback Method
hf	-775.27	kJ/mol	Joback Method
hfus	33.55	kJ/mol	Joback Method
hvap	70.66	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.476		Crippen Method
mcvol	243.550	ml/mol	McGowan Method
pc	1612.88	kPa	Joback Method
rinpol	2010.00		NIST Webbook
rinpol	2010.00		NIST Webbook
tb	753.14	K	Joback Method
tc	953.65	K	Joback Method
tf	423.79	K	Joback Method
vc	0.928	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	768.04	J/molxK	753.14	Joback Method
cpg	786.61	J/molxK	786.56	Joback Method
cpg	804.05	J/molxK	819.98	Joback Method
cpg	820.40	J/molxK	853.39	Joback Method
cpg	835.71	J/molxK	886.81	Joback Method
cpg	850.01	J/molxK	920.23	Joback Method
cpg	863.37	J/molxK	953.65	Joback Method
dvisc	0.0027657	Paxs	423.79	Joback Method

dvisc	0.0017662	Paxs	478.68	Joback Method
dvisc	0.0012369	Paxs	533.57	Joback Method
dvisc	0.0009258	Paxs	588.47	Joback Method
dvisc	0.0007280	Paxs	643.36	Joback Method
dvisc	0.0005946	Paxs	698.25	Joback Method
dvisc	0.0005001	Paxs	753.14	Joback Method

## Sources

<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=U405486&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405486&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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