

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

<b>Inchi:</b>	InChI=1S/C18H30O4/c1-4-15(12(2)3)21-17(19)6-5-7-18(20)22-16-11-13-8-9-14(16)10-13
<b>InchiKey:</b>	ZWCDULJEMCKNMS-UHFFFAOYSA-N
<b>Formula:</b>	C18H30O4
<b>SMILES:</b>	CCC(OC(=O)CCCC(=O)OC1CC2CCC1C2)C(C)C
<b>Mol. weight [g/mol]:</b>	310.43

## Physical Properties

Property code	Value	Unit	Source
gf	-270.35	kJ/mol	Joback Method
hf	-795.91	kJ/mol	Joback Method
hfus	36.14	kJ/mol	Joback Method
hvap	72.89	kJ/mol	Joback Method
log10ws	-4.37		Crippen Method
logp	3.866		Crippen Method
mcvol	257.640	ml/mol	McGowan Method
pc	1495.35	kPa	Joback Method
rinpol	2092.00		NIST Webbook
rinpol	2092.00		NIST Webbook
tb	776.02	K	Joback Method
tc	975.38	K	Joback Method
tf	435.06	K	Joback Method
vc	0.985	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	826.50	J/mol×K	776.02	Joback Method
cpg	845.22	J/mol×K	809.25	Joback Method
cpg	862.81	J/mol×K	842.47	Joback Method
cpg	879.29	J/mol×K	875.70	Joback Method
cpg	894.72	J/mol×K	908.93	Joback Method
cpg	909.14	J/mol×K	942.15	Joback Method
cpg	922.61	J/mol×K	975.38	Joback Method
dvisc	0.0026635	Paxs	435.06	Joback Method

dvisc	0.0016729	Paxs	491.89	Joback Method
dvisc	0.0011569	Paxs	548.71	Joback Method
dvisc	0.0008575	Paxs	605.54	Joback Method
dvisc	0.0006690	Paxs	662.37	Joback Method
dvisc	0.0005429	Paxs	719.19	Joback Method
dvisc	0.0004542	Paxs	776.02	Joback Method

## Sources

<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=U405487&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405487&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>

## 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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