

# Glutaric acid, 3,3-dimethylbut-2-yl hexyl ester

<b>Inchi:</b>	InChI=1S/C17H32O4/c1-6-7-8-9-13-20-15(18)11-10-12-16(19)21-14(2)17(3,4)5/h14H,6-
<b>InchiKey:</b>	DUIHRVKPRKNVMA-UHFFFAOYSA-N
<b>Formula:</b>	C17H32O4
<b>SMILES:</b>	CCCCCOC(=O)CCCC(=O)OC(C)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	300.43

## Physical Properties

Property code	Value	Unit	Source
gf	-375.18	kJ/mol	Joback Method
hf	-897.84	kJ/mol	Joback Method
hfus	34.42	kJ/mol	Joback Method
hvap	70.06	kJ/mol	Joback Method
log10ws	-4.53		Crippen Method
logp	4.258		Crippen Method
mcvol	265.270	ml/mol	McGowan Method
pc	1340.78	kPa	Joback Method
rinqol	1958.00		NIST Webbook
tb	737.27	K	Joback Method
tc	921.13	K	Joback Method
tf	413.09	K	Joback Method
vc	1.018	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	793.34	J/molxK	737.27	Joback Method
cpg	871.12	J/molxK	890.49	Joback Method
cpg	857.37	J/molxK	859.84	Joback Method
cpg	842.74	J/molxK	829.20	Joback Method
cpg	827.21	J/molxK	798.56	Joback Method
cpg	810.75	J/molxK	767.91	Joback Method
cpg	884.02	J/molxK	921.13	Joback Method
dvisc	0.0000617	Paxs	737.27	Joback Method
dvisc	0.0000845	Paxs	683.24	Joback Method

dvisc	0.0001220	Paxs	629.21	Joback Method
dvisc	0.0001889	Paxs	575.18	Joback Method
dvisc	0.0003200	Paxs	521.15	Joback Method
dvisc	0.0006127	Paxs	467.12	Joback Method
dvisc	0.0013901	Paxs	413.09	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=U359753&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359753&amp;Units=SI</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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