

# Glutaric acid, 3-methylbut-2-en-1-yl 2-methylhex-3-yl ester

<b>Inchi:</b>	InChI=1S/C17H30O4/c1-6-8-15(14(4)5)21-17(19)10-7-9-16(18)20-12-11-13(2)3/h11,14-1
<b>InchiKey:</b>	DBEDZZYIKVQHA-UHFFFAOYSA-N
<b>Formula:</b>	C17H30O4
<b>SMILES:</b>	CCCC(OC(=O)CCCC(=O)OCC=C(C)C)C(C)C
<b>Mol. weight [g/mol]:</b>	298.42

## Physical Properties

Property code	Value	Unit	Source
gf	-308.79	kJ/mol	Joback Method
hf	-786.94	kJ/mol	Joback Method
hfus	37.21	kJ/mol	Joback Method
hvap	71.01	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	4.034		Crippen Method
mcvol	260.970	ml/mol	McGowan Method
pc	1387.11	kPa	Joback Method
rinpol	1889.00		NIST Webbook
rinpol	1889.00		NIST Webbook
tb	744.10	K	Joback Method
tc	930.72	K	Joback Method
tf	376.63	K	Joback Method
vc	1.004	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	767.93	J/mol×K	744.10	Joback Method
cpg	784.92	J/mol×K	775.20	Joback Method
cpg	800.99	J/mol×K	806.31	Joback Method
cpg	816.16	J/mol×K	837.41	Joback Method
cpg	830.45	J/mol×K	868.51	Joback Method
cpg	843.89	J/mol×K	899.62	Joback Method
cpg	856.48	J/mol×K	930.72	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393730&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393730&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>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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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