

# Glutaric acid, pent-2-en-1-yl cyclohexylmethyl ester

Inchi:	InChI=1S/C17H28O4/c1-2-3-7-13-20-16(18)11-8-12-17(19)21-14-15-9-5-4-6-10-15/h3,7,
InchiKey:	GPABDNZRDCCKSTQ-XVNBXDOJSA-N
Formula:	C17H28O4
SMILES:	CCC=CCOC(=O)CCCC(=O)OCC1CCCCC1
Mol. weight [g/mol]:	296.40

## Physical Properties

Property code	Value	Unit	Source
gf	-270.91	kJ/mol	Joback Method
hf	-712.27	kJ/mol	Joback Method
hfus	37.40	kJ/mol	Joback Method
hvap	72.13	kJ/mol	Joback Method
log10ws	-4.17		Crippen Method
logp	3.790		Crippen Method
mvol	250.110	ml/mol	McGowan Method
pc	1598.72	kPa	Joback Method
rinpol	2152.00		NIST Webbook
rinpol	2152.00		NIST Webbook
tb	764.65	K	Joback Method
tc	965.43	K	Joback Method
tf	427.97	K	Joback Method
vc	0.949	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	762.73	J/molxK	764.65	Joback Method
cpg	841.56	J/molxK	931.97	Joback Method
cpg	828.01	J/molxK	898.50	Joback Method
cpg	813.37	J/molxK	865.04	Joback Method
cpg	797.63	J/molxK	831.58	Joback Method
cpg	780.76	J/molxK	798.11	Joback Method
cpg	854.06	J/molxK	965.43	Joback Method
dvisc	0.0000731	Paxs	764.65	Joback Method

dvisc	0.0000971	Paxs	708.54	Joback Method
dvisc	0.0001356	Paxs	652.42	Joback Method
dvisc	0.0002015	Paxs	596.31	Joback Method
dvisc	0.0003253	Paxs	540.20	Joback Method
dvisc	0.0005866	Paxs	484.08	Joback Method
dvisc	0.0012350	Paxs	427.97	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=U405259&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405259&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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