

# Glutaric acid, (5-ethyl-1,3-dioxan-5-yl)methyl pentyl ester

Inchi:	InChI=1S/C17H30O6/c1-3-5-6-10-22-15(18)8-7-9-16(19)23-13-17(4-2)11-20-14-21-12-17
InchiKey:	HYEZVHTUTDLECT-UHFFFAOYSA-N
Formula:	C17H30O6
SMILES:	CCCCCOC(=O)CCCC(=O)OCC1(CC)COCOC1
Mol. weight [g/mol]:	330.42

## Physical Properties

Property code	Value	Unit	Source
gf	-528.86	kJ/mol	Joback Method
hf	-1078.25	kJ/mol	Joback Method
hfus	46.85	kJ/mol	Joback Method
hvap	80.05	kJ/mol	Joback Method
log10ws	-2.99		Crippen Method
logp	2.834		Crippen Method
mcvol	266.150	ml/mol	McGowan Method
pc	1567.23	kPa	Joback Method
rinpol	2615.00		NIST Webbook
rinpol	2615.00		NIST Webbook
tb	814.63	K	Joback Method
tc	1015.48	K	Joback Method
tf	510.09	K	Joback Method
vc	1.008	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	851.37	J/mol×K	814.63	Joback Method
cpg	869.35	J/mol×K	848.10	Joback Method
cpg	886.59	J/mol×K	881.58	Joback Method
cpg	903.17	J/mol×K	915.05	Joback Method
cpg	919.18	J/mol×K	948.53	Joback Method
cpg	934.70	J/mol×K	982.00	Joback Method
cpg	949.79	J/mol×K	1015.48	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U380483&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380483&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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