

# Glutaric acid, di(1-cyclopentylethyl) ester

<b>Inchi:</b>	InChI=1S/C19H32O4/c1-14(16-8-3-4-9-16)22-18(20)12-7-13-19(21)23-15(2)17-10-5-6-1
<b>InchiKey:</b>	ATTLREQGIYHTNN-UHFFFAOYSA-N
<b>Formula:</b>	C19H32O4
<b>SMILES:</b>	CC(OC(=O)CCCC(=O)OC(C)C1CCCC1)C1CCCC1
<b>Mol. weight [g/mol]:</b>	324.45

## Physical Properties

Property code	Value	Unit	Source
gf	-290.52	kJ/mol	Joback Method
hf	-814.69	kJ/mol	Joback Method
hfus	31.36	kJ/mol	Joback Method
hvap	75.94	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	4.401		Crippen Method
mvol	271.730	ml/mol	McGowan Method
pc	1509.33	kPa	Joback Method
rinpol	2231.00		NIST Webbook
rinpol	2231.00		NIST Webbook
tb	816.38	K	Joback Method
tc	1028.10	K	Joback Method
tf	440.01	K	Joback Method
vc	1.018	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	895.15	J/molxK	816.38	Joback Method
cpg	979.55	J/molxK	992.81	Joback Method
cpg	965.43	J/molxK	957.53	Joback Method
cpg	949.98	J/molxK	922.24	Joback Method
cpg	933.14	J/molxK	886.95	Joback Method
cpg	914.88	J/molxK	851.67	Joback Method
cpg	992.37	J/molxK	1028.10	Joback Method
dvisc	0.0001132	Paxs	816.38	Joback Method

dvisc	0.0001496	Paxs	753.65	Joback Method
dvisc	0.0002079	Paxs	690.92	Joback Method
dvisc	0.0003086	Paxs	628.19	Joback Method
dvisc	0.0005000	Paxs	565.47	Joback Method
dvisc	0.0009140	Paxs	502.74	Joback Method
dvisc	0.0019842	Paxs	440.01	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=U405474&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405474&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>

## 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>h<sub>vap</sub>:</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>log<sub>p</sub>:</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

Latest version available from:

<https://www.chemeo.com/cid/89-331-6/Glutaric-acid-di-1-cyclopentylethyl-ester.pdf>

Generated by Cheméo on 2024-04-26 03:08:56.137713709 +0000 UTC m=+16390185.058291031.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.