

# Glutaric acid, (cyclohex-3-enyl)methyl cyclohexylmethyl ester

Inchi:	InChI=1S/C19H30O4/c20-18(22-14-16-8-3-1-4-9-16)12-7-13-19(21)23-15-17-10-5-2-6-1
InchiKey:	SDPSBKQUWGENEW-UHFFFAOYSA-N
Formula:	C19H30O4
SMILES:	O=C(CCCC(=O)OCC1CCCCC1)OCC1CC=CCC1
Mol. weight [g/mol]:	322.44

## Physical Properties

Property code	Value	Unit	Source
gf	-279.88	kJ/mol	Joback Method
hf	-758.67	kJ/mol	Joback Method
hfus	35.43	kJ/mol	Joback Method
hvap	77.35	kJ/mol	Joback Method
log10ws	-4.66		Crippen Method
logp	4.180		Crippen Method
mvol	267.430	ml/mol	McGowan Method
pc	1594.89	kPa	Joback Method
rinpol	2462.00		NIST Webbook
rinpol	2462.00		NIST Webbook
tb	824.96	K	Joback Method
tc	1041.66	K	Joback Method
tf	463.73	K	Joback Method
vc	1.000	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.70	J/molxK	824.96	Joback Method
cpg	955.35	J/molxK	1005.54	Joback Method
cpg	942.30	J/molxK	969.43	Joback Method
cpg	927.74	J/molxK	933.31	Joback Method
cpg	911.64	J/molxK	897.19	Joback Method
cpg	893.97	J/molxK	861.08	Joback Method
cpg	966.93	J/molxK	1041.66	Joback Method
dvisc	0.0000708	Paxs	824.96	Joback Method

dvisc	0.0000941	Paxs	764.76	Joback Method
dvisc	0.0001314	Paxs	704.55	Joback Method
dvisc	0.0001954	Paxs	644.35	Joback Method
dvisc	0.0003152	Paxs	584.14	Joback Method
dvisc	0.0005674	Paxs	523.94	Joback Method
dvisc	0.0011899	Paxs	463.73	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=U405529&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405529&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>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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