

# Glutaric acid, nonyl 1-phenyl-2-(3-cyclohexenyl)ethyl ester

Inchi:	InChI=1S/C28H42O4/c1-2-3-4-5-6-7-14-22-31-27(29)20-15-21-28(30)32-26(25-18-12-9-
InchiKey:	BZSDMULIDIJMID-UHFFFAOYSA-N
Formula:	C28H42O4
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)OC(CC1C=CCCC1)c1ccccc1
Mol. weight [g/mol]:	442.63

## Physical Properties

Property code	Value	Unit	Source
gf	-118.58	kJ/mol	Joback Method
hf	-767.50	kJ/mol	Joback Method
hfus	57.42	kJ/mol	Joback Method
hvap	98.84	kJ/mol	Joback Method
log10ws	-8.34		Crippen Method
logp	7.481		Crippen Method
mvol	381.340	ml/mol	McGowan Method
pc	956.14	kPa	Joback Method
rinpol	3270.00		NIST Webbook
rinpol	3270.00		NIST Webbook
tb	1037.57	K	Joback Method
tc	1270.28	K	Joback Method
tf	569.20	K	Joback Method
vc	1.456	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1332.16	J/molxK	1037.57	Joback Method
cpg	1348.36	J/molxK	1076.36	Joback Method
cpg	1362.78	J/molxK	1115.14	Joback Method
cpg	1375.51	J/molxK	1153.93	Joback Method
cpg	1386.62	J/molxK	1192.71	Joback Method
cpg	1396.21	J/molxK	1231.50	Joback Method
cpg	1404.35	J/molxK	1270.28	Joback Method
dvisc	0.0003356	Paxs	569.20	Joback Method

dvisc	0.0001505	Paxs	647.26	Joback Method
dvisc	0.0000803	Paxs	725.32	Joback Method
dvisc	0.0000483	Paxs	803.39	Joback Method
dvisc	0.0000319	Paxs	881.45	Joback Method
dvisc	0.0000225	Paxs	959.51	Joback Method
dvisc	0.0000167	Paxs	1037.57	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=U358592&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358592&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>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</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

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