

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

<b>Inchi:</b>	InChI=1S/C29H44O4/c1-2-3-4-5-6-7-8-15-23-32-28(30)21-16-22-29(31)33-27(26-19-13-
<b>InchiKey:</b>	OEAQNPMNGISLRH-UHFFFAOYSA-N
<b>Formula:</b>	C29H44O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCC(=O)OC(CC1C=CCCC1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	456.66

## Physical Properties

Property code	Value	Unit	Source
gf	-110.16	kJ/mol	Joback Method
hf	-788.14	kJ/mol	Joback Method
hfus	60.01	kJ/mol	Joback Method
hvap	101.07	kJ/mol	Joback Method
log10ws	-8.76		Crippen Method
logp	7.872		Crippen Method
mvol	395.430	ml/mol	McGowan Method
pc	901.80	kPa	Joback Method
rmpol	3375.00		NIST Webbook
tb	1060.45	K	Joback Method
tc	1298.76	K	Joback Method
tf	580.47	K	Joback Method
vc	1.512	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1394.78	J/molxK	1060.45	Joback Method
cpg	1411.02	J/molxK	1100.17	Joback Method
cpg	1425.41	J/molxK	1139.89	Joback Method
cpg	1438.03	J/molxK	1179.60	Joback Method
cpg	1448.98	J/molxK	1219.32	Joback Method
cpg	1458.35	J/molxK	1259.04	Joback Method
cpg	1466.23	J/molxK	1298.76	Joback Method
dvisc	0.0002933	Paxs	580.47	Joback Method
dvisc	0.0001306	Paxs	660.47	Joback Method

dvisc	0.0000693	Paxs	740.46	Joback Method
dvisc	0.0000416	Paxs	820.46	Joback Method
dvisc	0.0000273	Paxs	900.46	Joback Method
dvisc	0.0000192	Paxs	980.45	Joback Method
dvisc	0.0000143	Paxs	1060.45	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U358593&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358593&amp;Units=SI</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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