

# cis-Cyclohex-4-en-1,2-dicarboxylic acid, dodecyl 3-phenylpropyl ester

<b>Inchi:</b>	InChI=1S/C29H44O4/c1-2-3-4-5-6-7-8-9-10-16-23-32-28(30)26-21-14-15-22-27(26)29(3
<b>InchiKey:</b>	OYQHZDQQFVVJHB-UHFFFAOYSA-N
<b>Formula:</b>	C29H44O4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)C1CC=CCC1C(=O)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	456.66

## Physical Properties

Property code	Value	Unit	Source
gf	-115.43	kJ/mol	Joback Method
hf	-803.20	kJ/mol	Joback Method
hfus	64.61	kJ/mol	Joback Method
hvap	101.15	kJ/mol	Joback Method
log10ws	-8.05		Crippen Method
logp	7.209		Crippen Method
mvol	395.430	ml/mol	McGowan Method
pc	880.00	kPa	Joback Method
rinpol	3328.00		NIST Webbook
rinpol	3328.00		NIST Webbook
tb	1056.22	K	Joback Method
tc	1293.87	K	Joback Method
tf	591.23	K	Joback Method
vc	1.518	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1399.07	J/molxK	1056.22	Joback Method
cpg	1415.38	J/molxK	1095.83	Joback Method
cpg	1429.72	J/molxK	1135.44	Joback Method
cpg	1442.19	J/molxK	1175.04	Joback Method
cpg	1452.86	J/molxK	1214.65	Joback Method
cpg	1461.82	J/molxK	1254.26	Joback Method
cpg	1469.14	J/molxK	1293.87	Joback Method
dvisc	0.0003110	Paxs	591.23	Joback Method

dvisc	0.0001538	Paxs	668.73	Joback Method
dvisc	0.0000880	Paxs	746.23	Joback Method
dvisc	0.0000560	Paxs	823.73	Joback Method
dvisc	0.0000385	Paxs	901.22	Joback Method
dvisc	0.0000281	Paxs	978.72	Joback Method
dvisc	0.0000214	Paxs	1056.22	Joback Method

## Sources

<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=U382783&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382783&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>

## 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>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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