

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

<b>Inchi:</b>	InChI=1S/C26H46O4/c1-5-7-8-9-10-11-12-13-14-17-20-29-25(27)22-18-15-16-19-23(22)
<b>InchiKey:</b>	GYYYQYKSPVQHJTI-UHFFFAOYSA-N
<b>Formula:</b>	C26H46O4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)C1CC=CCC1C(=O)OC(CC)C(C)C
<b>Mol. weight [g/mol]:</b>	422.64

## Physical Properties

Property code	Value	Unit	Source
gf	-257.98	kJ/mol	Joback Method
hf	-988.37	kJ/mol	Joback Method
hfus	55.75	kJ/mol	Joback Method
hvap	91.42	kJ/mol	Joback Method
log10ws	-7.57		Crippen Method
logp	7.011		Crippen Method
mvol	376.920	ml/mol	McGowan Method
pc	866.07	kPa	Joback Method
rinpol	2832.00		NIST Webbook
rinpol	2832.00		NIST Webbook
tb	960.02	K	Joback Method
tc	1175.36	K	Joback Method
tf	501.00	K	Joback Method
vc	1.446	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1315.86	J/molxK	960.02	Joback Method
cpg	1335.16	J/molxK	995.91	Joback Method
cpg	1352.69	J/molxK	1031.80	Joback Method
cpg	1368.49	J/molxK	1067.69	Joback Method
cpg	1382.61	J/molxK	1103.58	Joback Method
cpg	1395.09	J/molxK	1139.47	Joback Method
cpg	1405.97	J/molxK	1175.36	Joback Method
dvisc	0.0006585	Paxs	501.00	Joback Method

dvisc	0.0002714	Paxs	577.50	Joback Method
dvisc	0.0001377	Paxs	654.01	Joback Method
dvisc	0.0000805	Paxs	730.51	Joback Method
dvisc	0.0000521	Paxs	807.01	Joback Method
dvisc	0.0000364	Paxs	883.52	Joback Method
dvisc	0.0000269	Paxs	960.02	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=U382768&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382768&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>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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