

# 1,2-Cyclohexanedicarboxylic acid, allyl pentadecyl ester

Inchi:	InChI=1S/C26H46O4/c1-3-5-6-7-8-9-10-11-12-13-14-15-18-22-30-26(28)24-20-17-16-19
InchiKey:	KPFHTFCFTOPOEV-UHFFFAOYSA-N
Formula:	C26H46O4
SMILES:	C=CCOC(=O)C1CCCCC1C(=O)OCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	422.64

## Physical Properties

Property code	Value	Unit	Source
gf	-195.22	kJ/mol	Joback Method
hf	-910.16	kJ/mol	Joback Method
hfus	60.30	kJ/mol	Joback Method
hvap	91.23	kJ/mol	Joback Method
log10ws	-7.70		Crippen Method
logp	7.156		Crippen Method
mvol	376.920	ml/mol	McGowan Method
pc	861.00	kPa	Joback Method
rinpol	2961.00		NIST Webbook
rinpol	2961.00		NIST Webbook
tb	958.42	K	Joback Method
tc	1173.63	K	Joback Method
tf	528.48	K	Joback Method
vc	1.452	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1316.34	J/molxK	958.42	Joback Method
cpg	1335.99	J/molxK	994.29	Joback Method
cpg	1353.90	J/molxK	1030.16	Joback Method
cpg	1370.12	J/molxK	1066.02	Joback Method
cpg	1384.69	J/molxK	1101.89	Joback Method
cpg	1397.68	J/molxK	1137.76	Joback Method
cpg	1409.11	J/molxK	1173.63	Joback Method
dvisc	0.0005284	Paxs	528.48	Joback Method

dvisc	0.0002503	Paxs	600.14	Joback Method
dvisc	0.0001391	Paxs	671.79	Joback Method
dvisc	0.0000865	Paxs	743.45	Joback Method
dvisc	0.0000585	Paxs	815.11	Joback Method
dvisc	0.0000422	Paxs	886.76	Joback Method
dvisc	0.0000319	Paxs	958.42	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=U339492&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339492&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>

## 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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