

# 1,2-Cyclohexanedicarboxylic acid, allyl tetradecyl ester

Inchi:	InChI=1S/C25H44O4/c1-3-5-6-7-8-9-10-11-12-13-14-17-21-29-25(27)23-19-16-15-18-22
InchiKey:	CYKPSSFQSQIYAJ-UHFFFAOYSA-N
Formula:	C25H44O4
SMILES:	C=CCOC(=O)C1CCCCC1C(=O)OCCCCCCCCCCCCC
Mol. weight [g/mol]:	408.61

## Physical Properties

Property code	Value	Unit	Source
gf	-203.64	kJ/mol	Joback Method
hf	-889.52	kJ/mol	Joback Method
hfus	57.71	kJ/mol	Joback Method
hvap	89.01	kJ/mol	Joback Method
log10ws	-7.28		Crippen Method
logp	6.766		Crippen Method
mvol	362.830	ml/mol	McGowan Method
pc	911.63	kPa	Joback Method
rinpol	2844.00		NIST Webbook
rinpol	2844.00		NIST Webbook
tb	935.54	K	Joback Method
tc	1145.41	K	Joback Method
tf	517.21	K	Joback Method
vc	1.397	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1252.79	J/molxK	935.54	Joback Method
cpg	1272.24	J/molxK	970.52	Joback Method
cpg	1290.06	J/molxK	1005.50	Joback Method
cpg	1306.29	J/molxK	1040.47	Joback Method
cpg	1320.96	J/molxK	1075.45	Joback Method
cpg	1334.13	J/molxK	1110.43	Joback Method
cpg	1345.83	J/molxK	1145.41	Joback Method
dvisc	0.0005955	Paxs	517.21	Joback Method

dvisc	0.0002847	Paxs	586.93	Joback Method
dvisc	0.0001592	Paxs	656.65	Joback Method
dvisc	0.0000996	Paxs	726.38	Joback Method
dvisc	0.0000676	Paxs	796.10	Joback Method
dvisc	0.0000488	Paxs	865.82	Joback Method
dvisc	0.0000370	Paxs	935.54	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=U339491&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339491&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>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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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