

# 1,2-Cyclohexanedicarboxylic acid, undecyl 4-isopropoxyphenyl diester

**Other names:** 1,2-Cyclohexanedicarboxylic acid, 4-isopropylphenyl undecyl ester

**Inchi:** InChI=1S/C28H44O5/c1-4-5-6-7-8-9-10-11-14-21-31-27(29)25-15-12-13-16-26(25)28(30)

**InchiKey:** AZCWAFJFQRQFQS-UHFFFAOYSA-N

**Formula:** C28H44O5

**SMILES:** CCCCCCCCCCOC(=O)C1CCCCC1C(=O)Oc1ccc(OC(C)C)cc1

**Mol. weight [g/mol]:** 460.65

## Physical Properties

Property code	Value	Unit	Source
gf	-270.88	kJ/mol	Joback Method
hf	-989.31	kJ/mol	Joback Method
hfus	58.07	kJ/mol	Joback Method
hvap	101.31	kJ/mol	Joback Method
log10ws	-8.24		Crippen Method
logp	7.260		Crippen Method
mcvol	391.510	ml/mol	McGowan Method
pc	899.10	kPa	Joback Method
rinpol	3177.00		NIST Webbook
rinpol	3177.00		NIST Webbook
tb	1061.14	K	Joback Method
tc	1299.61	K	Joback Method
tf	598.95	K	Joback Method
vc	1.488	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1395.91	J/molxK	1061.14	Joback Method
cpg	1449.06	J/molxK	1259.87	Joback Method
cpg	1442.81	J/molxK	1220.12	Joback Method
cpg	1434.42	J/molxK	1180.38	Joback Method
cpg	1423.83	J/molxK	1140.63	Joback Method
cpg	1411.01	J/molxK	1100.89	Joback Method
cpg	1453.21	J/molxK	1299.61	Joback Method

dvisc	0.0000155	Paxs	1061.14	Joback Method
dvisc	0.0000204	Paxs	984.11	Joback Method
dvisc	0.0000281	Paxs	907.08	Joback Method
dvisc	0.0000410	Paxs	830.04	Joback Method
dvisc	0.0000648	Paxs	753.01	Joback Method
dvisc	0.0001134	Paxs	675.98	Joback Method
dvisc	0.0002293	Paxs	598.95	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339581&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339581&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>
<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>

## 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>mvol:</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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