

# Dimethylmalonic acid, 1-phenyl-2-(cyclohex-2-enyl)ethyl undecyl

InChI:  
ester

InChI=1S/C30H46O4/c1-4-5-6-7-8-9-10-11-18-23-33-28(31)30(2,3)29(32)34-27(26-21-16

InChIKey:

NTXLBALGKHQCGC-UHFFFAOYSA-N

Formula:

C30H46O4

SMILES:

CCCCCCCCCOC(=O)C(C)(C)C(=O)OC(CC1C=CCCC1)c1cccc1

Mol. weight [g/mol]:

470.68

## Physical Properties

Property code	Value	Unit	Source
gf	-98.90	kJ/mol	Joback Method
hf	-817.53	kJ/mol	Joback Method
hfus	55.19	kJ/mol	Joback Method
hvap	102.00	kJ/mol	Joback Method
log10ws	-8.93		Crippen Method
logp	8.117		Crippen Method
mcvol	409.520	ml/mol	McGowan Method
pc	861.50	kPa	Joback Method
rinpol	3090.00		NIST Webbook
tb	1080.10	K	Joback Method
tc	1322.68	K	Joback Method
tf	594.16	K	Joback Method
vc	1.558	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1457.91	J/molxK	1080.10	Joback Method
cpg	1474.59	J/molxK	1120.53	Joback Method
cpg	1489.57	J/molxK	1160.96	Joback Method
cpg	1503.00	J/molxK	1201.39	Joback Method
cpg	1514.99	J/molxK	1241.82	Joback Method
cpg	1525.68	J/molxK	1282.25	Joback Method
cpg	1535.20	J/molxK	1322.68	Joback Method
dvisc	0.0002187	Paxs	594.16	Joback Method
dvisc	0.0000935	Paxs	675.15	Joback Method

dvisc	0.0000479	Paxs	756.14	Joback Method
dvisc	0.0000279	Paxs	837.13	Joback Method
dvisc	0.0000179	Paxs	918.12	Joback Method
dvisc	0.0000124	Paxs	999.11	Joback Method
dvisc	0.0000090	Paxs	1080.10	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U361877&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U361877&amp;Units=SI</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>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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