

# Dimethylmalonic acid, 2-isopropoxyphenyl tridecyl ester

Inchi:	InChI=1S/C27H44O5/c1-6-7-8-9-10-11-12-13-14-15-18-21-30-25(28)27(4,5)26(29)32-24
InchiKey:	RPYOAPUFBGYS DH-UHFFFAOYSA-N
Formula:	C27H44O5
SMILES:	CCCCCCCCCCCCOC(=O)C(C)(C)C(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	448.64

## Physical Properties

Property code	Value	Unit	Source
gf	-293.20	kJ/mol	Joback Method
hf	-1011.40	kJ/mol	Joback Method
hfus	55.16	kJ/mol	Joback Method
hvap	97.67	kJ/mol	Joback Method
log10ws	-8.17		Crippen Method
logp	7.260		Crippen Method
mcvol	388.280	ml/mol	McGowan Method
pc	869.14	kPa	Joback Method
rinpol	2851.00		NIST Webbook
rinpol	2851.00		NIST Webbook
tb	1020.15	K	Joback Method
tc	1249.96	K	Joback Method
tf	586.96	K	Joback Method
vc	1.488	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1335.85	J/molxK	1020.15	Joback Method
cpg	1352.72	J/molxK	1058.45	Joback Method
cpg	1367.90	J/molxK	1096.75	Joback Method
cpg	1381.44	J/molxK	1135.06	Joback Method
cpg	1393.41	J/molxK	1173.36	Joback Method
cpg	1403.88	J/molxK	1211.66	Joback Method
cpg	1412.93	J/molxK	1249.96	Joback Method
dvisc	0.0001734	Paxs	586.96	Joback Method

dvisc	0.0000826	Paxs	659.16	Joback Method
dvisc	0.0000456	Paxs	731.36	Joback Method
dvisc	0.0000280	Paxs	803.56	Joback Method
dvisc	0.0000186	Paxs	875.75	Joback Method
dvisc	0.0000132	Paxs	947.95	Joback Method
dvisc	0.0000098	Paxs	1020.15	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=U361861&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U361861&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>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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