

# Dimethylmalonic acid, 2-isopropoxyphenyl octyl ester

Inchi:	InChI=1S/C22H34O5/c1-6-7-8-9-10-13-16-25-20(23)22(4,5)21(24)27-19-15-12-11-14-18
InchiKey:	CBKVLWADKPGLEQ-UHFFFAOYSA-N
Formula:	C22H34O5
SMILES:	CCCCCCCCOC(=O)C(C)(C)C(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	378.50

## Physical Properties

Property code	Value	Unit	Source
gf	-335.30	kJ/mol	Joback Method
hf	-908.20	kJ/mol	Joback Method
hfus	42.21	kJ/mol	Joback Method
hvap	86.54	kJ/mol	Joback Method
log10ws	-6.08		Crippen Method
logp	5.309		Crippen Method
mcvol	317.830	ml/mol	McGowan Method
pc	1179.28	kPa	Joback Method
rinsol	2362.00		NIST Webbook
tb	905.75	K	Joback Method
tc	1115.36	K	Joback Method
tf	530.61	K	Joback Method
vc	1.208	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1027.89	J/molxK	905.75	Joback Method
cpg	1044.00	J/molxK	940.68	Joback Method
cpg	1058.77	J/molxK	975.62	Joback Method
cpg	1072.24	J/molxK	1010.55	Joback Method
cpg	1084.46	J/molxK	1045.49	Joback Method
cpg	1095.44	J/molxK	1080.42	Joback Method
cpg	1105.24	J/molxK	1115.36	Joback Method
dvisc	0.0003343	Paxs	530.61	Joback Method
dvisc	0.0001668	Paxs	593.13	Joback Method

dvisc	0.0000950	Paxs	655.66	Joback Method
dvisc	0.0000597	Paxs	718.18	Joback Method
dvisc	0.0000404	Paxs	780.70	Joback Method
dvisc	0.0000290	Paxs	843.23	Joback Method
dvisc	0.0000217	Paxs	905.75	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=U361856&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U361856&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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