

# Diethylmalonic acid, 2-isopropoxyphenyl pentyl ester

Inchi:	InChI=1S/C21H32O5/c1-6-9-12-15-24-19(22)21(7-2,8-3)20(23)26-18-14-11-10-13-17(18)
InchiKey:	IBRKJSDGTQWJAR-UHFFFAOYSA-N
Formula:	C21H32O5
SMILES:	CCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	364.48

## Physical Properties

Property code	Value	Unit	Source
gf	-343.72	kJ/mol	Joback Method
hf	-887.56	kJ/mol	Joback Method
hfus	39.62	kJ/mol	Joback Method
hvap	84.32	kJ/mol	Joback Method
log10ws	-5.66		Crippen Method
logp	4.919		Crippen Method
mcvol	303.740	ml/mol	McGowan Method
pc	1261.06	kPa	Joback Method
rinqol	2243.00		NIST Webbook
tb	882.87	K	Joback Method
tc	1091.16	K	Joback Method
tf	519.34	K	Joback Method
vc	1.153	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	967.85	J/molxK	882.87	Joback Method
cpg	983.85	J/molxK	917.58	Joback Method
cpg	998.55	J/molxK	952.30	Joback Method
cpg	1012.00	J/molxK	987.01	Joback Method
cpg	1024.23	J/molxK	1021.73	Joback Method
cpg	1035.26	J/molxK	1056.44	Joback Method
cpg	1045.14	J/molxK	1091.16	Joback Method
dvisc	0.0003781	Paxs	519.34	Joback Method
dvisc	0.0001905	Paxs	579.93	Joback Method

dvisc	0.0001093	Paxs	640.52	Joback Method
dvisc	0.0000690	Paxs	701.10	Joback Method
dvisc	0.0000469	Paxs	761.69	Joback Method
dvisc	0.0000337	Paxs	822.28	Joback Method
dvisc	0.0000254	Paxs	882.87	Joback Method

## Sources

<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=U369585&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369585&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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/56-692-2/Diethylmalonic-acid-2-isopropoxyphenyl-pentyl-ester.pdf>

Generated by Cheméo on 2024-04-26 05:33:05.397996958 +0000 UTC m=+16398834.318574269.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.