

# Diethylmalonic acid, hexadecyl 2-isopropoxyphenyl ester

Inchi:	InChI=1S/C32H54O5/c1-6-9-10-11-12-13-14-15-16-17-18-19-20-23-26-35-30(33)32(7-2,
InchiKey:	LWAJEPXWMB SOKJ-UHFFFAOYSA-N
Formula:	C32H54O5
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	518.77

## Physical Properties

Property code	Value	Unit	Source
gf	-251.10	kJ/mol	Joback Method
hf	-1114.60	kJ/mol	Joback Method
hfus	68.11	kJ/mol	Joback Method
hvap	108.80	kJ/mol	Joback Method
log10ws	-10.27		Crippen Method
logp	9.210		Crippen Method
mcvol	458.730	ml/mol	McGowan Method
pc	667.01	kPa	Joback Method
rinpol	3347.00		NIST Webbook
tb	1134.55	K	Joback Method
tc	1414.02	K	Joback Method
tf	643.31	K	Joback Method
vc	1.768	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1652.41	J/molxK	1134.55	Joback Method
cpg	1720.95	J/molxK	1367.44	Joback Method
cpg	1711.54	J/molxK	1320.86	Joback Method
cpg	1700.14	J/molxK	1274.28	Joback Method
cpg	1686.59	J/molxK	1227.71	Joback Method
cpg	1670.73	J/molxK	1181.13	Joback Method
cpg	1728.53	J/molxK	1414.02	Joback Method
dvisc	0.0000043	Paxs	1134.55	Joback Method
dvisc	0.0000058	Paxs	1052.68	Joback Method

dvisc	0.0000083	Paxs	970.80	Joback Method
dvisc	0.0000126	Paxs	888.93	Joback Method
dvisc	0.0000210	Paxs	807.06	Joback Method
dvisc	0.0000391	Paxs	725.18	Joback Method
dvisc	0.0000852	Paxs	643.31	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=U369594&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369594&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

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