

# Dimethylmalonic acid, 4-(4-methoxyphenyl)cyclohexyl octyl ester

Inchi:	InChI=1S/C26H40O5/c1-5-6-7-8-9-10-19-30-24(27)26(2,3)25(28)31-23-17-13-21(14-18-2
InchiKey:	KPJMGEGBSKAEQQ-UHFFFAOYSA-N
Formula:	C26H40O5
SMILES:	CCCCCCCCOC(=O)C(C)(C)C(=O)OC1CCC(c2ccc(OC)cc2)CC1
Mol. weight [g/mol]:	432.59

## Physical Properties

Property code	Value	Unit	Source
gf	-282.44	kJ/mol	Joback Method
hf	-951.50	kJ/mol	Joback Method
hfus	49.00	kJ/mol	Joback Method
hvap	95.95	kJ/mol	Joback Method
log10ws	-6.96		Crippen Method
logp	6.194		Crippen Method
mcvol	363.330	ml/mol	McGowan Method
pc	1019.43	kPa	Joback Method
rinpol	3207.00		NIST Webbook
tb	1012.59	K	Joback Method
tc	1241.55	K	Joback Method
tf	593.83	K	Joback Method
vc	1.371	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1271.51	J/molxK	1012.59	Joback Method
cpg	1332.33	J/molxK	1203.39	Joback Method
cpg	1323.71	J/molxK	1165.23	Joback Method
cpg	1313.37	J/molxK	1127.07	Joback Method
cpg	1301.26	J/molxK	1088.91	Joback Method
cpg	1287.33	J/molxK	1050.75	Joback Method
cpg	1339.29	J/molxK	1241.55	Joback Method
dvisc	0.0000175	Paxs	1012.59	Joback Method
dvisc	0.0000229	Paxs	942.80	Joback Method

dvisc	0.0000314	Paxs	873.00	Joback Method
dvisc	0.0000454	Paxs	803.21	Joback Method
dvisc	0.0000706	Paxs	733.42	Joback Method
dvisc	0.0001203	Paxs	663.62	Joback Method
dvisc	0.0002323	Paxs	593.83	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=U363920&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U363920&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

Latest version available from:

<https://www.chemeo.com/cid/11-241-1/Dimethylmalonic-acid-4-4-methoxyphenyl-cyclohexyl-octyl-ester.pdf>

Generated by Cheméo on 2024-04-17 03:26:14.435117148 +0000 UTC m=+15613623.355694459.

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