

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

Inchi:	InChI=1S/C25H38O5/c1-5-6-7-8-9-18-29-23(26)25(2,3)24(27)30-22-16-12-20(13-17-22)1
InchiKey:	UNQHJXAURLXHEY-UHFFFAOYSA-N
Formula:	C25H38O5
SMILES:	CCCCCCCOC(=O)C(C)(C)C(=O)OC1CCC(c2ccc(OC)cc2)CC1
Mol. weight [g/mol]:	418.57

## Physical Properties

Property code	Value	Unit	Source
gf	-290.86	kJ/mol	Joback Method
hf	-930.86	kJ/mol	Joback Method
hfus	46.41	kJ/mol	Joback Method
hvap	93.73	kJ/mol	Joback Method
log10ws	-6.55		Crippen Method
logp	5.804		Crippen Method
mcvol	349.240	ml/mol	McGowan Method
pc	1084.92	kPa	Joback Method
rinpol	3111.00		NIST Webbook
tb	989.71	K	Joback Method
tc	1215.99	K	Joback Method
tf	582.56	K	Joback Method
vc	1.315	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1209.73	J/molxK	989.71	Joback Method
cpg	1271.88	J/molxK	1178.28	Joback Method
cpg	1262.89	J/molxK	1140.56	Joback Method
cpg	1252.24	J/molxK	1102.85	Joback Method
cpg	1239.86	J/molxK	1065.14	Joback Method
cpg	1225.71	J/molxK	1027.42	Joback Method
cpg	1279.24	J/molxK	1215.99	Joback Method
dvisc	0.0000204	Paxs	989.71	Joback Method
dvisc	0.0000267	Paxs	921.85	Joback Method

dvisc	0.0000365	Paxs	853.99	Joback Method
dvisc	0.0000526	Paxs	786.13	Joback Method
dvisc	0.0000813	Paxs	718.28	Joback Method
dvisc	0.0001376	Paxs	650.42	Joback Method
dvisc	0.0002633	Paxs	582.56	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=U363919&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U363919&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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