

# Dimethylmalonic acid, heptadecyl 2-methylpent-3-yl ester

Inchi:	InChI=1S/C28H54O4/c1-7-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-31-26(29)28(5
InchiKey:	OMHOVWRMNJXIKB-UHFFFAOYSA-N
Formula:	C28H54O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C(C)(C)C(=O)OC(CC)C(C)C
Mol. weight [g/mol]:	454.73

## Physical Properties

Property code	Value	Unit	Source
gf	-285.00	kJ/mol	Joback Method
hf	-1130.16	kJ/mol	Joback Method
hfus	59.39	kJ/mol	Joback Method
hvap	94.16	kJ/mol	Joback Method
log10ws	-8.90		Crippen Method
logp	8.405		Crippen Method
mcvol	420.260	ml/mol	McGowan Method
pc	700.24	kPa	Joback Method
rinsol	2859.00		NIST Webbook
tb	988.51	K	Joback Method
tc	1218.05	K	Joback Method
tf	522.06	K	Joback Method
vc	1.629	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1474.73	J/molxK	988.51	Joback Method
cpg	1496.50	J/molxK	1026.77	Joback Method
cpg	1516.51	J/molxK	1065.02	Joback Method
cpg	1534.84	J/molxK	1103.28	Joback Method
cpg	1551.60	J/molxK	1141.54	Joback Method
cpg	1566.86	J/molxK	1179.79	Joback Method
cpg	1580.72	J/molxK	1218.05	Joback Method
dvisc	0.0003674	Paxs	522.06	Joback Method
dvisc	0.0001361	Paxs	599.80	Joback Method

dvisc	0.0000633	Paxs	677.54	Joback Method
dvisc	0.0000345	Paxs	755.29	Joback Method
dvisc	0.0000210	Paxs	833.03	Joback Method
dvisc	0.0000140	Paxs	910.77	Joback Method
dvisc	0.0000099	Paxs	988.51	Joback Method

## Sources

<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=U361802&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U361802&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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