

# Dimethylmalonic acid, hexyl octyl ester

<b>Inchi:</b>	InChI=1S/C19H36O4/c1-5-7-9-11-12-14-16-23-18(21)19(3,4)17(20)22-15-13-10-8-6-2/h5
<b>InchiKey:</b>	BPSQTXCCPFUAEH-UHFFFAOYSA-N
<b>Formula:</b>	C19H36O4
<b>SMILES:</b>	CCCCCCCCOC(=O)C(C)(C)C(=O)OCCCCC
<b>Mol. weight [g/mol]:</b>	328.49

## Physical Properties

Property code	Value	Unit	Source
gf	-355.90	kJ/mol	Joback Method
hf	-933.84	kJ/mol	Joback Method
hfus	43.13	kJ/mol	Joback Method
hvap	74.90	kJ/mol	Joback Method
log10ws	-5.26		Crippen Method
logp	5.040		Crippen Method
mcvol	293.450	ml/mol	McGowan Method
pc	1164.04	kPa	Joback Method
rinpol	2023.00		NIST Webbook
tb	783.47	K	Joback Method
tc	967.35	K	Joback Method
tf	450.63	K	Joback Method
vc	1.137	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	910.17	J/molxK	783.47	Joback Method
cpg	928.06	J/molxK	814.12	Joback Method
cpg	944.94	J/molxK	844.76	Joback Method
cpg	960.85	J/molxK	875.41	Joback Method
cpg	975.81	J/molxK	906.05	Joback Method
cpg	989.85	J/molxK	936.70	Joback Method
cpg	1003.00	J/molxK	967.35	Joback Method
dvisc	0.0009035	Paxs	450.63	Joback Method
dvisc	0.0004275	Paxs	506.10	Joback Method

dvisc	0.0002345	Paxs	561.58	Joback Method
dvisc	0.0001433	Paxs	617.05	Joback Method
dvisc	0.0000950	Paxs	672.52	Joback Method
dvisc	0.0000670	Paxs	728.00	Joback Method
dvisc	0.0000497	Paxs	783.47	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=U361673&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U361673&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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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