

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

<b>Inchi:</b>	InChI=1S/C30H58O4/c1-7-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-33-28(31)30
<b>InchiKey:</b>	OJCMSBQGAHICAL-UHFFFAOYSA-N
<b>Formula:</b>	C30H58O4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)OC(C)C(C)CC
<b>Mol. weight [g/mol]:</b>	482.78

## Physical Properties

Property code	Value	Unit	Source
gf	-268.16	kJ/mol	Joback Method
hf	-1171.44	kJ/mol	Joback Method
hfus	64.57	kJ/mol	Joback Method
hvap	98.61	kJ/mol	Joback Method
log10ws	-9.73		Crippen Method
logp	9.185		Crippen Method
mvol	448.440	ml/mol	McGowan Method
pc	634.16	kPa	Joback Method
rinpol	2995.00		NIST Webbook
rinpol	2995.00		NIST Webbook
tb	1034.27	K	Joback Method
tc	1285.38	K	Joback Method
tf	544.60	K	Joback Method
vc	1.740	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1605.20	J/molxK	1034.27	Joback Method
cpg	1628.30	J/molxK	1076.12	Joback Method
cpg	1649.33	J/molxK	1117.97	Joback Method
cpg	1668.40	J/molxK	1159.83	Joback Method
cpg	1685.65	J/molxK	1201.68	Joback Method
cpg	1701.19	J/molxK	1243.53	Joback Method
cpg	1715.17	J/molxK	1285.38	Joback Method
dvisc	0.0002696	Paxs	544.60	Joback Method

dvisc	0.0000990	Paxs	626.21	Joback Method
dvisc	0.0000458	Paxs	707.82	Joback Method
dvisc	0.0000248	Paxs	789.43	Joback Method
dvisc	0.0000151	Paxs	871.05	Joback Method
dvisc	0.0000100	Paxs	952.66	Joback Method
dvisc	0.0000071	Paxs	1034.27	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U369742&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369742&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

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