

# Adipic acid, heptadecyl 3-oxobut-2-yl ester

<b>Inchi:</b>	InChI=1S/C27H50O5/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-20-23-31-26(29)21-18-19
<b>InchiKey:</b>	HJIJBOUTKAGJFY-UHFFFAOYSA-N
<b>Formula:</b>	C27H50O5
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OC(C)C(C)=O
<b>Mol. weight [g/mol]:</b>	454.68

## Physical Properties

Property code	Value	Unit	Source
gf	-422.74	kJ/mol	Joback Method
hf	-1208.07	kJ/mol	Joback Method
hfus	69.34	kJ/mol	Joback Method
hvap	100.37	kJ/mol	Joback Method
log10ws	-8.24		Crippen Method
logp	7.482		Crippen Method
mcvol	407.740	ml/mol	McGowan Method
pc	751.85	kPa	Joback Method
rinpola	3133.00		NIST Webbook
tb	1023.17	K	Joback Method
tc	1268.74	K	Joback Method
tf	573.30	K	Joback Method
vc	1.595	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1429.11	J/molxK	1023.17	Joback Method
cpg	1449.04	J/molxK	1064.10	Joback Method
cpg	1466.90	J/molxK	1105.03	Joback Method
cpg	1482.76	J/molxK	1145.96	Joback Method
cpg	1496.70	J/molxK	1186.89	Joback Method
cpg	1508.77	J/molxK	1227.82	Joback Method
cpg	1519.06	J/molxK	1268.74	Joback Method
dvisc	0.0003041	Paxs	573.30	Joback Method
dvisc	0.0001392	Paxs	648.28	Joback Method

dvisc	0.0000749	Paxs	723.26	Joback Method
dvisc	0.0000453	Paxs	798.23	Joback Method
dvisc	0.0000299	Paxs	873.21	Joback Method
dvisc	0.0000210	Paxs	948.19	Joback Method
dvisc	0.0000156	Paxs	1023.17	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=U353761&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353761&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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