

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

<b>Inchi:</b>	InChI=1S/C26H48O5/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-19-22-30-25(28)20-17-18-21
<b>InchiKey:</b>	KNAPXEGDSZSYDG-UHFFFAOYSA-N
<b>Formula:</b>	C26H48O5
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OC(C)C(C)=O
<b>Mol. weight [g/mol]:</b>	440.66

## Physical Properties

Property code	Value	Unit	Source
gf	-431.16	kJ/mol	Joback Method
hf	-1187.43	kJ/mol	Joback Method
hfus	66.75	kJ/mol	Joback Method
hvap	98.14	kJ/mol	Joback Method
log10ws	-7.82		Crippen Method
logp	7.092		Crippen Method
mvol	393.650	ml/mol	McGowan Method
pc	793.05	kPa	Joback Method
rinpol	3032.00		NIST Webbook
rinpol	3032.00		NIST Webbook
tb	1000.29	K	Joback Method
tc	1235.03	K	Joback Method
tf	562.03	K	Joback Method
vc	1.540	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1365.44	J/molxK	1000.29	Joback Method
cpg	1384.85	J/molxK	1039.41	Joback Method
cpg	1402.37	J/molxK	1078.54	Joback Method
cpg	1418.08	J/molxK	1117.66	Joback Method
cpg	1432.02	J/molxK	1156.78	Joback Method
cpg	1444.26	J/molxK	1195.90	Joback Method
cpg	1454.85	J/molxK	1235.03	Joback Method
dvisc	0.0003483	Paxs	562.03	Joback Method

dvisc	0.0001607	Paxs	635.07	Joback Method
dvisc	0.0000870	Paxs	708.12	Joback Method
dvisc	0.0000528	Paxs	781.16	Joback Method
dvisc	0.0000349	Paxs	854.20	Joback Method
dvisc	0.0000246	Paxs	927.25	Joback Method
dvisc	0.0000183	Paxs	1000.29	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.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=U353760&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353760&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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