

# 2-Heptenoic acid, heptadecyl ester

<b>Inchi:</b>	InChI=1S/C24H46O2/c1-3-5-7-9-10-11-12-13-14-15-16-17-18-19-21-23-26-24(25)22-20-
<b>InchiKey:</b>	RFYKCCZKLVYTM-LSDHQDQOSA-N
<b>Formula:</b>	C24H46O2
<b>SMILES:</b>	CCCCC=CC(=O)OCCCCCCCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	366.62

## Physical Properties

Property code	Value	Unit	Source
gf	-2.50	kJ/mol	Joback Method
hf	-666.27	kJ/mol	Joback Method
hfus	60.90	kJ/mol	Joback Method
hvap	78.13	kJ/mol	Joback Method
log10ws	-8.58		Crippen Method
logp	8.147		Crippen Method
mvol	352.160	ml/mol	McGowan Method
pc	852.97	kPa	Joback Method
rinpol	2662.00		NIST Webbook
rinpol	2662.00		NIST Webbook
tb	828.97	K	Joback Method
tc	1015.16	K	Joback Method
tf	427.32	K	Joback Method
vc	1.383	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1131.61	J/molxK	828.97	Joback Method
cpg	1152.63	J/molxK	860.00	Joback Method
cpg	1172.54	J/molxK	891.03	Joback Method
cpg	1191.40	J/molxK	922.06	Joback Method
cpg	1209.26	J/molxK	953.09	Joback Method
cpg	1226.16	J/molxK	984.13	Joback Method
cpg	1242.15	J/molxK	1015.16	Joback Method
dvisc	0.0009923	Paxs	427.32	Joback Method

dvisc	0.0003939	Paxs	494.26	Joback Method
dvisc	0.0001949	Paxs	561.20	Joback Method
dvisc	0.0001121	Paxs	628.14	Joback Method
dvisc	0.0000717	Paxs	695.09	Joback Method
dvisc	0.0000496	Paxs	762.03	Joback Method
dvisc	0.0000364	Paxs	828.97	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=U406102&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406102&amp;Units=SI</a>
<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>

## 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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