

# Allyl palmitate

<b>Inchi:</b>	InChI=1S/C19H36O2/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-19(20)21-18-4-2/h4H,2-3,
<b>InchiKey:</b>	HAFZJTKIBGEQKT-UHFFFAOYSA-N
<b>Formula:</b>	C19H36O2
<b>SMILES:</b>	C=CCOC(=O)CCCCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	296.49

## Physical Properties

Property code	Value	Unit	Source
gf	-36.98	kJ/mol	Joback Method
hf	-554.86	kJ/mol	Joback Method
hfus	46.47	kJ/mol	Joback Method
hvap	66.37	kJ/mol	Joback Method
log10ws	-6.49		Crippen Method
logp	6.197		Crippen Method
mcvol	281.710	ml/mol	McGowan Method
pc	1145.99	kPa	Joback Method
rinpol	2053.00		NIST Webbook
tb	707.09	K	Joback Method
tc	877.73	K	Joback Method
tf	374.29	K	Joback Method
vc	1.105	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	823.93	J/mol×K	707.09	Joback Method
cpg	909.12	J/mol×K	849.29	Joback Method
cpg	893.71	J/mol×K	820.85	Joback Method
cpg	877.51	J/mol×K	792.41	Joback Method
cpg	860.49	J/mol×K	763.97	Joback Method
cpg	842.64	J/mol×K	735.53	Joback Method
cpg	923.77	J/mol×K	877.73	Joback Method
dvisc	0.0000884	Paxs	707.09	Joback Method
dvisc	0.0001181	Paxs	651.62	Joback Method

dvisc	0.0001664	Paxs	596.16	Joback Method
dvisc	0.0002517	Paxs	540.69	Joback Method
dvisc	0.0004182	Paxs	485.22	Joback Method
dvisc	0.0007925	Paxs	429.76	Joback Method
dvisc	0.0018146	Paxs	374.29	Joback Method

## Sources

<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=R541156&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R541156&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>
<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>

## 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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