

# Allyl arachidate

<b>Inchi:</b>	InChI=1S/C23H44O2/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-23(24)25-22
<b>InchiKey:</b>	FFJIQMXNDZSTQB-UHFFFAOYSA-N
<b>Formula:</b>	C23H44O2
<b>SMILES:</b>	C=CCOC(=O)CCCCCCCCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	352.59

## Physical Properties

Property code	Value	Unit	Source
gf	-3.30	kJ/mol	Joback Method
hf	-637.42	kJ/mol	Joback Method
hfus	56.83	kJ/mol	Joback Method
hvap	75.28	kJ/mol	Joback Method
log10ws	-8.17		Crippen Method
logp	7.757		Crippen Method
mcvol	338.070	ml/mol	McGowan Method
pc	897.49	kPa	Joback Method
rinsol	2450.00		NIST Webbook
tb	798.61	K	Joback Method
tc	978.82	K	Joback Method
tf	419.37	K	Joback Method
vc	1.329	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1066.41	J/molxK	798.61	Joback Method
cpg	1086.93	J/molxK	828.65	Joback Method
cpg	1106.40	J/molxK	858.68	Joback Method
cpg	1124.85	J/molxK	888.72	Joback Method
cpg	1142.32	J/molxK	918.75	Joback Method
cpg	1158.84	J/molxK	948.79	Joback Method
cpg	1174.45	J/molxK	978.82	Joback Method
dvisc	0.0011987	Paxs	419.37	Joback Method
dvisc	0.0005032	Paxs	482.58	Joback Method

dvisc	0.0002583	Paxs	545.78	Joback Method
dvisc	0.0001523	Paxs	608.99	Joback Method
dvisc	0.0000991	Paxs	672.20	Joback Method
dvisc	0.0000695	Paxs	735.40	Joback Method
dvisc	0.0000515	Paxs	798.61	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=R541101&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R541101&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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