

# Pentyl linoleate

<b>Inchi:</b>	InChI=1S/C23H42O2/c1-3-5-7-8-9-10-11-12-13-14-15-16-17-18-19-21-23(24)25-22-20-6
<b>InchiKey:</b>	RWSPHQOPNBVTAO-UTJQPWESSA-N
<b>Formula:</b>	C23H42O2
<b>SMILES:</b>	CCCCC=CCC=CCCCCCCCC(=O)OCCCCC
<b>Mol. weight [g/mol]:</b>	350.58
<b>CAS:</b>	108906-10-1

## Physical Properties

Property code	Value	Unit	Source
gf	69.30	kJ/mol	Joback Method
hf	-528.41	kJ/mol	Joback Method
hfus	58.52	kJ/mol	Joback Method
hvap	75.86	kJ/mol	Joback Method
log10ws	-8.02		Crippen Method
logp	7.533		Crippen Method
mvol	333.770	ml/mol	McGowan Method
pc	931.78	kPa	Joback Method
rinpol	2416.90		NIST Webbook
rinpol	2416.90		NIST Webbook
tb	810.25	K	Joback Method
tc	994.49	K	Joback Method
tf	410.97	K	Joback Method
vc	1.308	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1043.92	J/molxK	810.25	Joback Method
cpg	1063.84	J/molxK	840.96	Joback Method
cpg	1082.76	J/molxK	871.66	Joback Method
cpg	1100.75	J/molxK	902.37	Joback Method
cpg	1117.85	J/molxK	933.08	Joback Method
cpg	1134.11	J/molxK	963.79	Joback Method
cpg	1149.58	J/molxK	994.49	Joback Method

dvisc	0.0010459	Paxs	410.97	Joback Method
dvisc	0.0004051	Paxs	477.52	Joback Method
dvisc	0.0001979	Paxs	544.06	Joback Method
dvisc	0.0001130	Paxs	610.61	Joback Method
dvisc	0.0000721	Paxs	677.16	Joback Method
dvisc	0.0000498	Paxs	743.70	Joback Method
dvisc	0.0000366	Paxs	810.25	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=C108906101&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C108906101&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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