

# propyl triacontanoate

**Inchi:** InChI=1S/C36H72O2/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25  
**InchiKey:** ZQHOTJQEGUNQNY-UHFFFAOYSA-N  
**Formula:** C36H72O2  
**SMILES:** CCC(=O)OCCC  
**Mol. weight [g/mol]:** 536.96

## Physical Properties

Property code	Value	Unit	Source
gf	18.32	kJ/mol	Joback Method
hf	-1031.17	kJ/mol	Joback Method
hfus	91.78	kJ/mol	Joback Method
hvap	104.89	kJ/mol	Joback Method
log10ws	-13.75		Crippen Method
logp	13.053		Crippen Method
mcvol	525.540	ml/mol	McGowan Method
pc	466.89	kPa	Joback Method
rinpol	3479.66		NIST Webbook
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tb	1099.37	K	Joback Method
tc	1434.20	K	Joback Method
tf	567.64	K	Joback Method
vc	2.075	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1954.91	J/molxK	1099.37	Joback Method
cpg	2092.87	J/molxK	1378.39	Joback Method
cpg	2071.04	J/molxK	1322.59	Joback Method
cpg	2046.69	J/molxK	1266.78	Joback Method
cpg	2019.47	J/molxK	1210.98	Joback Method
cpg	1989.00	J/molxK	1155.17	Joback Method
cpg	2112.57	J/molxK	1434.20	Joback Method
dvisc	0.0000064	Paxs	1099.37	Joback Method

dvisc	0.0000089	Paxs	1010.75	Joback Method
dvisc	0.0000131	Paxs	922.13	Joback Method
dvisc	0.0000209	Paxs	833.50	Joback Method
dvisc	0.0000374	Paxs	744.88	Joback Method
dvisc	0.0000781	Paxs	656.26	Joback Method
dvisc	0.0002056	Paxs	567.64	Joback Method

## Sources

<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=R438045&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R438045&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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