

# Retinyl decanoate

<b>Inchi:</b>	InChI=1S/C30H48O2/c1-7-8-9-10-11-12-13-19-29(31)32-24-22-26(3)17-14-16-25(2)20-2
<b>InchiKey:</b>	FAPCXJRRRCFTZLR-HEYZNTEQSA-N
<b>Formula:</b>	C30H48O2
<b>SMILES:</b>	CCCCCCCCC(=O)OCC=C(C)C=CC=C(C)C=CC1=C(C)CCCC1(C)C
<b>Mol. weight [g/mol]:</b>	440.70

## Physical Properties

Property code	Value	Unit	Source
gf	301.24	kJ/mol	Joback Method
hf	-353.63	kJ/mol	Joback Method
hfus	60.41	kJ/mol	Joback Method
hvap	92.42	kJ/mol	Joback Method
log10ws	-10.16		Crippen Method
logp	9.202		Crippen Method
mcvol	408.640	ml/mol	McGowan Method
pc	781.12	kPa	Joback Method
rinqol	3359.00		NIST Webbook
tb	1007.40	K	Joback Method
tc	1233.47	K	Joback Method
tf	508.86	K	Joback Method
vc	1.579	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1412.07	J/molxK	1007.40	Joback Method
cpg	1439.23	J/molxK	1045.08	Joback Method
cpg	1466.46	J/molxK	1082.76	Joback Method
cpg	1494.00	J/molxK	1120.44	Joback Method
cpg	1522.09	J/molxK	1158.12	Joback Method
cpg	1550.96	J/molxK	1195.79	Joback Method
cpg	1580.85	J/molxK	1233.47	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=R55579&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R55579&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>rinpola:</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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