

# Cyclohexyl nonadecanoate

<b>Inchi:</b>	InChI=1S/C25H48O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-20-23-25(26)27-24-21-18
<b>InchiKey:</b>	WQIYPLDSWWUFLK-UHFFFAOYSA-N
<b>Formula:</b>	C25H48O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCC(=O)OC1CCCCC1
<b>Mol. weight [g/mol]:</b>	380.65

## Physical Properties

Property code	Value	Unit	Source
gf	-49.85	kJ/mol	Joback Method
hf	-749.81	kJ/mol	Joback Method
hfus	55.13	kJ/mol	Joback Method
hvap	80.83	kJ/mol	Joback Method
log10ws	-9.16		Crippen Method
logp	8.514		Crippen Method
mcvol	359.690	ml/mol	McGowan Method
pc	882.09	kPa	Joback Method
rinsol	2722.00		NIST Webbook
tb	867.24	K	Joback Method
tc	1062.92	K	Joback Method
tf	451.05	K	Joback Method
vc	1.393	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1220.25	J/molxK	867.24	Joback Method
cpg	1242.37	J/molxK	899.85	Joback Method
cpg	1263.08	J/molxK	932.47	Joback Method
cpg	1282.43	J/molxK	965.08	Joback Method
cpg	1300.47	J/molxK	997.70	Joback Method
cpg	1317.25	J/molxK	1030.31	Joback Method
cpg	1332.82	J/molxK	1062.92	Joback Method
dvisc	0.0010724	Paxs	451.05	Joback Method
dvisc	0.0004219	Paxs	520.41	Joback Method

dvisc	0.0002067	Paxs	589.78	Joback Method
dvisc	0.0001177	Paxs	659.14	Joback Method
dvisc	0.0000746	Paxs	728.51	Joback Method
dvisc	0.0000512	Paxs	797.88	Joback Method
dvisc	0.0000373	Paxs	867.24	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=R541512&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R541512&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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