

# (Z)-Nonacos-20-ene-2,4-dione

<b>Inchi:</b>	InChI=1S/C29H54O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25
<b>InchiKey:</b>	OFVPQPWVGAMWFR-KHPPLWFESA-N
<b>Formula:</b>	C29H54O2
<b>SMILES:</b>	CCCCCCCCC=CCCCCCCCCCCCCCCCC(=O)CC(C)=O
<b>Mol. weight [g/mol]:</b>	434.74
<b>CAS:</b>	305805-40-7

## Physical Properties

Property code	Value	Unit	Source
gf	15.68	kJ/mol	Joback Method
hf	-749.83	kJ/mol	Joback Method
hfus	74.27	kJ/mol	Joback Method
hvap	93.60	kJ/mol	Joback Method
log10ws	-10.38		Crippen Method
logp	9.693		Crippen Method
mcvol	418.310	ml/mol	McGowan Method
pc	683.86	kPa	Joback Method
rinpol	3222.90		NIST Webbook
rinpol	3222.90		NIST Webbook
tb	974.82	K	Joback Method
tc	1203.41	K	Joback Method
tf	511.37	K	Joback Method
vc	1.651	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1447.18	J/molxK	974.82	Joback Method
cpg	1551.80	J/molxK	1165.31	Joback Method
cpg	1533.28	J/molxK	1127.21	Joback Method
cpg	1513.67	J/molxK	1089.11	Joback Method
cpg	1492.87	J/molxK	1051.02	Joback Method
cpg	1470.75	J/molxK	1012.92	Joback Method
cpg	1569.36	J/molxK	1203.41	Joback Method

dvisc	0.0000220	Paxs	974.82	Joback Method
dvisc	0.0000299	Paxs	897.58	Joback Method
dvisc	0.0000433	Paxs	820.34	Joback Method
dvisc	0.0000675	Paxs	743.09	Joback Method
dvisc	0.0001168	Paxs	665.85	Joback Method
dvisc	0.0002332	Paxs	588.61	Joback Method
dvisc	0.0005740	Paxs	511.37	Joback Method

## Sources

<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>
<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=C305805407&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C305805407&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>mvol:</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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