

# Dotriacontan-2,4-dione

<b>Inchi:</b>	InChI=1S/C32H62O2/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>	SXKODSLROOSVOX-UHFFFAOYSA-N
<b>Formula:</b>	C32H62O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC(=O)CC(C)=O
<b>Mol. weight [g/mol]:</b>	478.83

## Physical Properties

Property code	Value	Unit	Source
gf	-39.28	kJ/mol	Joback Method
hf	-928.97	kJ/mol	Joback Method
hfus	81.83	kJ/mol	Joback Method
hvap	100.32	kJ/mol	Joback Method
log10ws	-11.78		Crippen Method
logp	11.087		Crippen Method
mcvol	464.880	ml/mol	McGowan Method
pc	576.74	kPa	Joback Method
rinpol	3539.80		NIST Webbook
rinpol	3539.80		NIST Webbook
tb	1039.30	K	Joback Method
tc	1308.88	K	Joback Method
tf	550.26	K	Joback Method
vc	1.839	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1674.18	J/molxK	1039.30	Joback Method
cpg	1701.60	J/molxK	1084.23	Joback Method
cpg	1726.85	J/molxK	1129.16	Joback Method
cpg	1750.13	J/molxK	1174.09	Joback Method
cpg	1771.62	J/molxK	1219.02	Joback Method
cpg	1791.53	J/molxK	1263.95	Joback Method
cpg	1810.03	J/molxK	1308.88	Joback Method
dvisc	0.0004074	Paxs	550.26	Joback Method

dvisc	0.0001665	Paxs	631.77	Joback Method
dvisc	0.0000835	Paxs	713.27	Joback Method
dvisc	0.0000482	Paxs	794.78	Joback Method
dvisc	0.0000309	Paxs	876.29	Joback Method
dvisc	0.0000213	Paxs	957.79	Joback Method
dvisc	0.0000156	Paxs	1039.30	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=U414890&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U414890&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

Latest version available from:

<https://www.chemeo.com/cid/94-739-8/Dotriacontan-2-4-dione.pdf>

Generated by Cheméo on 2024-04-23 10:12:04.536848009 +0000 UTC m=+16156373.457425322.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.