

# Hentriacontane-6,8-dione

<b>Inchi:</b>	InChI=1S/C31H60O2/c1-3-5-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-2
<b>InchiKey:</b>	NOFCXTKFBVIBXKH-UHFFFAOYSA-N
<b>Formula:</b>	C31H60O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCC(=O)CC(=O)CCCC
<b>Mol. weight [g/mol]:</b>	464.81

## Physical Properties

Property code	Value	Unit	Source
gf	-47.70	kJ/mol	Joback Method
hf	-908.33	kJ/mol	Joback Method
hfus	79.24	kJ/mol	Joback Method
hvap	98.09	kJ/mol	Joback Method
log10ws	-11.36		Crippen Method
logp	10.697		Crippen Method
mcvol	450.790	ml/mol	McGowan Method
pc	604.28	kPa	Joback Method
rinpol	3402.80		NIST Webbook
rinpol	3402.80		NIST Webbook
tb	1016.42	K	Joback Method
tc	1271.51	K	Joback Method
tf	538.99	K	Joback Method
vc	1.784	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1607.38	J/molxK	1016.42	Joback Method
cpg	1633.62	J/molxK	1058.93	Joback Method
cpg	1657.89	J/molxK	1101.45	Joback Method
cpg	1680.34	J/molxK	1143.96	Joback Method
cpg	1701.12	J/molxK	1186.48	Joback Method
cpg	1720.40	J/molxK	1228.99	Joback Method
cpg	1738.33	J/molxK	1271.51	Joback Method
dvisc	0.0004684	Paxs	538.99	Joback Method

dvisc	0.0001927	Paxs	618.56	Joback Method
dvisc	0.0000970	Paxs	698.13	Joback Method
dvisc	0.0000562	Paxs	777.70	Joback Method
dvisc	0.0000361	Paxs	857.28	Joback Method
dvisc	0.0000249	Paxs	936.85	Joback Method
dvisc	0.0000183	Paxs	1016.42	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=U413691&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U413691&amp;Units=SI</a>
<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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