

# 8E,15E,22E-heptatriaconta-trien-2-one

<b>Other names:</b>	Heptatriaconta-8E,15E,22E-trien-2-one
<b>Inchi:</b>	InChI=1S/C37H68O/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>	BVZVGJNVBQWQNU-OVNHWCOASA-N
<b>Formula:</b>	C37H68O
<b>SMILES:</b>	CCCCCCCCCCCCCCC=CCCCCCC=CCCCCCC=CCCCCCC(C)=O
<b>Mol. weight [g/mol]:</b>	528.94

## Physical Properties

Property code	Value	Unit	Source
gf	372.40	kJ/mol	Joback Method
hf	-567.93	kJ/mol	Joback Method
hfus	93.79	kJ/mol	Joback Method
hvap	104.58	kJ/mol	Joback Method
log10ws	-14.15		Crippen Method
logp	13.187		Crippen Method
mcvol	520.860	ml/mol	McGowan Method
pc	482.82	kPa	Joback Method
rinpol	3883.00		NIST Webbook
rinpol	3883.00		NIST Webbook
rinpol	3883.00		NIST Webbook
tb	1112.31	K	Joback Method
tc	1424.96	K	Joback Method
tf	541.44	K	Joback Method
vc	2.054	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1908.72	J/molxK	1112.31	Joback Method
cpg	2076.37	J/molxK	1372.85	Joback Method
cpg	2043.73	J/molxK	1320.74	Joback Method
cpg	2011.12	J/molxK	1268.63	Joback Method
cpg	1978.07	J/molxK	1216.53	Joback Method
cpg	1944.09	J/molxK	1164.42	Joback Method

cpg	2109.53	J/mol×K	1424.96	Joback Method
dvisc	0.0000052	Paxs	1112.31	Joback Method
dvisc	0.0000072	Paxs	1017.16	Joback Method
dvisc	0.0000108	Paxs	922.02	Joback Method
dvisc	0.0000177	Paxs	826.88	Joback Method
dvisc	0.0000330	Paxs	731.73	Joback Method
dvisc	0.0000743	Paxs	636.59	Joback Method
dvisc	0.0002222	Paxs	541.44	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=R407353&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R407353&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.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>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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