

# Heptatriaconta-15E,22E-dien-2-one

<b>Other names:</b>	15E,22E-heptatriaconta-dien-2-one
<b>Inchi:</b>	InChI=1S/C37H70O/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>	GWIJSBMCDZFLTO-IFNFSJRCSA-N
<b>Formula:</b>	C37H70O
<b>SMILES:</b>	CCCCCCCCCCCCCCC=CCCCCCC=CCCCCCCCCCCCCCC(C)=O
<b>Mol. weight [g/mol]:</b>	530.95

## Physical Properties

Property code	Value	Unit	Source
gf	292.18	kJ/mol	Joback Method
hf	-685.15	kJ/mol	Joback Method
hfus	93.59	kJ/mol	Joback Method
hvap	104.62	kJ/mol	Joback Method
log10ws	-14.30		Crippen Method
logp	13.411		Crippen Method
mcpvol	525.160	ml/mol	McGowan Method
pc	471.97	kPa	Joback Method
rinpol	3892.00		NIST Webbook
rinpol	3892.00		NIST Webbook
rinpol	3892.00		NIST Webbook
tb	1108.15	K	Joback Method
tc	1428.25	K	Joback Method
tf	546.52	K	Joback Method
vc	2.074	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1936.24	J/molxK	1108.15	Joback Method
cpg	2099.56	J/molxK	1374.90	Joback Method
cpg	2068.94	J/molxK	1321.55	Joback Method
cpg	2037.76	J/molxK	1268.20	Joback Method
cpg	2005.57	J/molxK	1214.85	Joback Method
cpg	1971.88	J/molxK	1161.50	Joback Method

cpg	2130.11	J/molxK	1428.25	Joback Method
dvisc	0.0000058	Paxs	1108.15	Joback Method
dvisc	0.0000081	Paxs	1014.55	Joback Method
dvisc	0.0000122	Paxs	920.94	Joback Method
dvisc	0.0000199	Paxs	827.34	Joback Method
dvisc	0.0000368	Paxs	733.73	Joback Method
dvisc	0.0000815	Paxs	640.12	Joback Method
dvisc	0.0002371	Paxs	546.52	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=R407308&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R407308&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

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