

# Estra-1,3,5(10)-trien-17«beta»-ol

<b>Other names:</b>	Estra-1,3,5(10)-trien-17-ol, (17«beta»)- Estradiol, 3-deoxy- 1,3,5(10)-Estratriene-17«beta»-ol 17«beta»-Estradiol, 3-deoxy- 17«beta»-Hydroxyestra-1,3,5(10)-triene 3-Deoxy-17«beta»-estradiol 3-Deoxyestradiol Desoxy-dihydroestrone 1,3,5(10)-Oestratrien-17«beta»-ol
<b>Inchi:</b>	InChI=1S/C18H24O/c1-18-11-10-14-13-5-3-2-4-12(13)6-7-15(14)16(18)8-9-17(18)19/h2-
<b>InchiKey:</b>	MUENRDYXOADTOC-UHFFFAOYSA-N
<b>Formula:</b>	C18H24O
<b>SMILES:</b>	CC12CCC3c4ccccc4CCC3C1CCC2O
<b>Mol. weight [g/mol]:</b>	256.38
<b>CAS:</b>	2529-64-8

## Physical Properties

Property code	Value	Unit	Source
gf	203.78	kJ/mol	Joback Method
hf	-161.38	kJ/mol	Joback Method
hfus	26.17	kJ/mol	Joback Method
hvap	73.59	kJ/mol	Joback Method
log10ws	-4.72		Crippen Method
logp	3.904		Crippen Method
mcvol	214.010	ml/mol	McGowan Method
pc	2227.09	kPa	Joback Method
rinpol	2300.00		NIST Webbook
rinpol	2218.00		NIST Webbook
rinpol	2218.00		NIST Webbook
tb	754.74	K	Joback Method
tc	982.16	K	Joback Method
tf	454.58	K	Joback Method
vc	0.805	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	688.46	J/mol×K	754.74	Joback Method
cpg	708.37	J/mol×K	792.64	Joback Method
cpg	727.45	J/mol×K	830.55	Joback Method
cpg	745.92	J/mol×K	868.45	Joback Method
cpg	764.01	J/mol×K	906.35	Joback Method
cpg	781.94	J/mol×K	944.26	Joback Method
cpg	799.93	J/mol×K	982.16	Joback Method

## Sources

Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2529648&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2529648&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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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