

# Estran-4-on-17B-ol, 17A-ethyl

**Inchi:** InChI=1S/C20H32O2/c1-3-20(22)12-10-17-15-7-8-16-13(5-4-6-18(16)21)14(15)9-11-19(20)  
**InchiKey:** PZXUCTNTGYRTTC-JJVWSAESSA-N  
**Formula:** C20H32O2  
**SMILES:** CCC1(O)CCC2C3CCC4C(=O)CCCC4C3CCC21C  
**Mol. weight [g/mol]:** 304.47

## Physical Properties

Property code	Value	Unit	Source
gf	6.50	kJ/mol	Joback Method
hf	-516.20	kJ/mol	Joback Method
hfus	23.81	kJ/mol	Joback Method
hvap	78.32	kJ/mol	Joback Method
log10ws	-4.98		Crippen Method
logp	4.349		Crippen Method
mvol	256.660	ml/mol	McGowan Method
pc	1772.85	kPa	Joback Method
rinpol	2650.00		NIST Webbook
rinpol	2650.00		NIST Webbook
tb	851.78	K	Joback Method
tc	1082.72	K	Joback Method
tf	533.44	K	Joback Method
vc	0.963	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	933.14	J/mol×K	851.78	Joback Method
cpg	958.57	J/mol×K	890.27	Joback Method
cpg	983.88	J/mol×K	928.76	Joback Method
cpg	1009.37	J/mol×K	967.25	Joback Method
cpg	1035.35	J/mol×K	1005.74	Joback Method
cpg	1062.10	J/mol×K	1044.23	Joback Method
cpg	1089.95	J/mol×K	1082.72	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=R5666&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R5666&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>h vap:</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>r in pol:</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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