

# Diethylstilbestrol

## Other names:

(E)-3,4-Bis(4-hydroxyphenyl)-3-hexene  
(E)-4,4'-(1,2-Diethyl-1,2-ethenediyl)bisphenol  
3,4-(Di-4-hydroxyphenyl)hex-3-ene, (E)-  
3,4-Bis(p-hydroxyphenyl)-3-hexene, trans  
3-Hexene,3,4-bis(p-hydroxyphenyl)-, (E)-  
4,4'-(1,2-Diethyl-1,2-ethenediyl)bisphenol, trans  
4,4'-Dihydroxy-«alpha», «beta»-diethylstilbene  
4,4'-Dihydroxy-«alpha», «beta»-diethylstilbene  
4,4'-Dihydroxydiethylstilbene  
4,4'-Stilbenediol, «alpha», «alpha»'-diethyl-, (E)-  
4,4'-Stilbenediol, «alpha», «alpha»-diethyl-, (E)-  
4,4'-Stilbenediol, «alpha», «alpha»'-diethyl-, (E)-  
4,4'-Stilbenediol, «alpha», «alpha»-diethyl-, (E)-  
Acnestrol  
Agostilben  
Antigestil  
Bertrol  
Bio-des  
Bufon  
Climaterine  
Comestrol  
Comestrol estrobene  
Cyren  
Cyren A  
DEB  
DES  
DES (Synthetic Estrogen)  
Dawe's destrol  
Desma  
Destrol  
Di-Estryl  
DiBestrol 2 Premix  
Diastyl  
Dibestrol  
Dibestrol '2' premix  
Dicorvin  
Diethylstilbesterol  
Diethylstilboesterol  
Dietilestilbestrol  
Distilbene

Domestrol  
Dyestrol  
Estilben  
Estilbin MCO  
Estril  
Estrobene  
Estromenin  
Estrosyn  
Follidiene  
Fonatol  
Grafestrol  
Gynopharm  
Hi-Bestrol  
Idroestril  
Iscovesco  
Makarol  
Menostilbeen  
Micrest  
Microest  
Milestrol  
NSC 3070  
Neo-Oestranol I  
New-Estranol 1  
OeKolp  
Oestrogenine  
Oestrol vetag  
Oestromenin  
Oestromensil  
Oestromensyl  
Oestromienin  
Oestromon  
Pabestrol  
Palestrol  
Percutatrine oestrogenique iscovesco  
Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)-  
Phenol, 4,4'-[(1E)-1,2-diethyl-1,2-ethenediyl]bis-  
Protectona  
RCRA Waste number U089  
Rumestrol 1  
Rumestrol 2  
Sedestran  
Serral  
Sexocretin

Sibol  
Sintestrol  
Stibilium  
Stil  
Stil-Rol  
Stilbestrol  
Stilbestrol, diethyl-  
Stilbestrone  
Stilbetin  
Stilboefral  
Stilboestroform  
Stilboestrol  
Stilbofolin  
Stilbol  
Stilkap  
Synestrin  
Synthestrin  
Synthoestrin  
Synthofolin  
Syntofolin  
Tampovagan stilboestrol  
Tylosterone  
Vagestrol  
neo-Oestranol 1  
strobene  
trans-4,4'-(1,2-Diethyl-1,2-ethenediyl)bisphenol  
trans-Diethylstilbesterol  
trans-Diethylstilbestrol  
trans-Diethylstilboesterol  
trans-«alpha», «alpha»'-Diethyl-4,4'-Stilbenediol  
trans-Â«alphaÂ», Â«alphaÂ»'-Diethyl-4,4'-Stilbenediol  
«alpha», «alpha»'-Diethyl-(E)-4,4'-stilbenediol  
«alpha», «alpha»'-Diethyl-4,4'-stilbenediol  
«alpha», «alpha»'-Diethylstilbenediol  
Â«alphaÂ», Â«alphaÂ»'-Diethyl-(E)-4,4'-stilbenediol  
Â«alphaÂ», Â«alphaÂ»'-Diethyl-4,4'-stilbenediol  
Â«alphaÂ», Â«alphaÂ»'-Diethylstilbenediol

**Inchi:**

InChI=1S/C18H20O2/c1-3-17(13-5-9-15(19)10-6-13)18(4-2)14-7-11-16(20)12-8-14/h5-12

**InchiKey:**

RGLYKWWBQGJZGM-ISLYRVAYSA-N

**Formula:**

C18H20O2

**SMILES:**

CCC(=C(CC)c1ccc(O)cc1)c1ccc(O)cc1

**Mol. weight [g/mol]:**

268.35

**CAS:**

56-53-1

# Physical Properties

Property code	Value	Unit	Source
gf	79.38	kJ/mol	Joback Method
hf	-198.77	kJ/mol	Joback Method
hfus	39.61	kJ/mol	Joback Method
hvap	86.36	kJ/mol	Joback Method
log10ws	-4.19		Aqueous Solubility Prediction Method
log10ws	-4.07		Estimated Solubility Method
logp	4.829		Crippen Method
mvol	224.400	ml/mol	McGowan Method
pc	2701.41	kPa	Joback Method
rinpol	2298.00		NIST Webbook
tb	829.76	K	Joback Method
tc	1081.28	K	Joback Method
tf	445.56 ± 0.20	K	NIST Webbook
tf	443.00 ± 1.00	K	NIST Webbook
vc	0.742	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	739.01	J/mol×K	1039.36	Joback Method
cpg	663.14	J/mol×K	829.76	Joback Method
cpg	678.69	J/mol×K	871.68	Joback Method
cpg	693.80	J/mol×K	913.60	Joback Method
cpg	708.72	J/mol×K	955.52	Joback Method
cpg	723.71	J/mol×K	997.44	Joback Method
cpg	754.89	J/mol×K	1081.28	Joback Method
hfust	31.76	kJ/mol	443.80	NIST Webbook

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C56531&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C56531&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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</a>
<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>hfust:</b>	Enthalpy of fusion at a given temperature
<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>rinpolar:</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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