

Dienestrol

Other names:

2,4-Hexadiene, 3,4-bis(4-hydroxyphenyl)-
3,4-Bis(4-hydroxyphenyl)-2,4-hexadiene
3,4-Bis(p-hydroxyphenyl)-2,4-hexadiene
4,4'-(1,2-Diethylidene-1,2-ethanediyl)bisphenol
4,4'-(Diethylideneethylene)diphenol
4,4'-Dihydroxy-«gamma»,«delta»-diphenyl-«beta»,«delta»-hexadiene
4,4'-Dihydroxy-Â«gammaÂ»,Â«deltaÂ»-diphenyl-Â«betaÂ»,Â«deltaÂ»-hexadiene
Agaldog
Cycladiene
DV
Dehydrostilbestrol
Dehydrostilboestrol
Di(p-oxyphenyl)-2,4-hexadiene
Dienesterol
Dienoestrol
Dienoestrol bp
Dienol
Dinestrol
Dinovex
Estragard
Estraguard
Estrodienol
Estroral
Follidiene
Follormon
Gynefollin
Hormofemin
NSC 59809
Oestrasid
Oestrodienne
Oestrodienol
Oestroral
Oestrovis
Phenol, 4,4'-(1,2-diethylidene-1,2-ethanediyl)bis-
Phenol, 4,4'-(diethylideneethylene)di-
Restrol
Retalon
Sexadien
Synestrol
Teserene

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

Willnestrol

p,p'-(Diethylideneethylene)diphenol

para-Dien

InChI=1S/C18H18O2/c1-3-17(13-5-9-15(19)10-6-13)18(4-2)14-7-11-16(20)12-8-14/h3-12

NFDFQCUYFHCNBW-SCGPFSFSSA-N

C18H18O2

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

266.33

84-17-3

Physical Properties

Property code	Value	Unit	Source
gf	159.60	kJ/mol	Joback Method
hf	-81.55	kJ/mol	Joback Method
hfus	39.81	kJ/mol	Joback Method
hvap	86.32	kJ/mol	Joback Method
log10ws	-4.95		Aqueous Solubility Prediction Method
log10ws	-4.95		Estimated Solubility Method
logp	4.605		Crippen Method
mcvol	220.100	ml/mol	McGowan Method
pc	2853.57	kPa	Joback Method
tb	833.92	K	Joback Method
tc	1094.51	K	Joback Method
tf	500.65	K	Aqueous Solubility Prediction Method
vc	0.722	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	636.41	J/mol×K	833.92	Joback Method
cpg	651.62	J/mol×K	877.35	Joback Method
cpg	666.55	J/mol×K	920.78	Joback Method
cpg	681.50	J/mol×K	964.22	Joback Method
cpg	696.78	J/mol×K	1007.65	Joback Method
cpg	712.69	J/mol×K	1051.08	Joback Method

cpg

729.53

J/mol×K

1094.51

Joback Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C84173&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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