

Phenol, 4,4'-(1-methylethylidene)bis-

Other names:

- 2,2-(4',4''-dihydroxy)diphenylpropane
- 2,2-(4,4'-Dihydroxydiphenyl)propane
- 2,2-(4,4-Dihydroxydiphenyl)propane
- 2,2-Bis(4-hydroxyphenol) propane
- 2,2-Bis(4'-hydroxyphenyl)propane
- 2,2-Bis(4,4'-hydroxyphenyl)propane
- 2,2-Bis(4-hydroxyphenyl)propane
- 2,2-Bis(hydroxyphenyl)propane
- 2,2-Bis(p-hydroxyphenyl)propane
- 2,2-Bis-4'-hydroxyfenylpropan
- 2,2-Di(4-hydroxyphenyl)propane
- 2,2-Di(4-phenylol)propane
- 2,2-di-(4'-Hydroxyphenyl)-propane
- 2,2-di-(4-hydroxyphenyl)propane
- 4,4'-(1-METHYLETHYLIDENE)BIS-PHENOL
- 4,4'-(1-Methylethylidene)bisphenol
- 4,4'-(propane-2,2-diyl)diphenol
- 4,4'-Bisphenol A
- 4,4'-Dihydroxdiphenylpropane
- 4,4'-Dihydroxy-2,2-diphenylpropane
- 4,4'-Dihydroxydiphenyl-2,2-propane
- 4,4'-Dihydroxydiphenyldimethylmethane
- 4,4'-Dihydroxydiphenylpropane
- 4,4'-ISOPROPYLIDENEDI-PHENOL
- 4,4'-Isopropylidenebis[phenol]
- 4,4'-Isopropylidenediphenol
- 4,4-Isopropylidenediphenol
- BPA 157
- Biphenol A
- Bis(4-hydroxyphenyl) dimethylmethane
- Bis(p-hydroxyphenyl)propane
- Bisferol A
- Bisphenol
- Bisphenol A
- Dian
- Diano
- Dimethyl bis(p-hydroxyphenyl)methane
- Dimethylmethylene-p,p'-diphenol
- Diphenylolpropane
- Ipognox 88

Isopropylidenebis(4-hydroxybenzene)

NCI-C50635

Parabis

Parabis A

Phenol, (1-methylethylidene)bis-

Phenol, 4,4'-dimethylmethylenedi-

Phenol, 4,4'-isopropylidenedi-

Pluracol 245

Propane, 2,2-bis(p-hydroxyphenyl)-

Rikabanol

di-2,2-(4-Hydroxyphenyl)propane

p,p'-Bisphenol A

p,p'-Dihydroxydiphenyldimethylmethane

p,p'-Dihydroxydiphenylpropane

p,p'-Isopropylidenebisphenol

p,p'-Isopropylidenediphenol

«beta», «beta»'-Bis(p-hydroxyphenyl)propane

«beta»-di-p-hydroxyphenylpropane

Â«betaÂ», Â«betaÂ»'-Bis(p-hydroxyphenyl)propane

Â«betaÂ»-di-p-hydroxyphenylpropane

Inchi:

InChI=1S/C15H16O2/c1-15(2,11-3-7-13(16)8-4-11)12-5-9-14(17)10-6-12/h3-10,16-17H,1

InchiKey:

IISBACLAFKSPIT-UHFFFAOYSA-N

Formula:

C15H16O2

SMILES:

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

Mol. weight [g/mol]:

228.29

CAS:

80-05-7

Physical Properties

Property code	Value	Unit	Source
gf	-6.16	kJ/mol	Joback Method
hf	-243.24	kJ/mol	Joback Method
hfus	30.70	kJ/mol	Solubility of Bisphenol A in Supercritical Carbon Dioxide
hvap	78.27	kJ/mol	Joback Method
log10ws	-2.82		Aqueous Solubility Prediction Method
logp	3.424		Crippen Method
mcvol	186.430	ml/mol	McGowan Method
pc	3547.31	kPa	Joback Method
rinpol	2108.00		NIST Webbook

tb	753.97	K	Joback Method
tc	1018.62	K	Joback Method
tf	427.65	K	Aqueous Solubility Prediction Method
vc	0.581	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	528.97	J/mol×K	753.97	Joback Method
cpg	543.20	J/mol×K	798.08	Joback Method
cpg	556.63	J/mol×K	842.19	Joback Method
cpg	569.54	J/mol×K	886.29	Joback Method
cpg	582.22	J/mol×K	930.40	Joback Method
cpg	594.96	J/mol×K	974.51	Joback Method
cpg	608.03	J/mol×K	1018.62	Joback Method
dvisc	0.0000313	Paxs	537.51	Joback Method
dvisc	0.0000137	Paxs	573.59	Joback Method
dvisc	0.0000066	Paxs	609.66	Joback Method
dvisc	0.0000035	Paxs	645.74	Joback Method
dvisc	0.0000019	Paxs	681.82	Joback Method
dvisc	0.0000012	Paxs	717.89	Joback Method
dvisc	0.0000007	Paxs	753.97	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.44248e+01
Coeff. B	-4.04412e+03
Coeff. C	-2.21266e+02
Temperature range (K), min.	507.33
Temperature range (K), max.	665.02

Information	Value
Property code	pvap

Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	2.95077e+02
Coeff. B	-3.04193e+04
Coeff. C	-3.80451e+01
Coeff. D	7.42083e-06
Temperature range (K), min.	426.15
Temperature range (K), max.	849.00

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Aqueous Solubilities of Estrone, 17β-Estradiol, 17α-Ethinylestradiol, and Gestrone:	https://www.doi.org/10.1021/je050318c
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
KDB:	https://www.chemic.org/files/research/kdb/mol/mol890.mol
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C80057&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
KDB Vapor Pressure Data:	https://www.chemic.org/research/kdb/hcprop/showprop.php?cmpid=890
Solubility of Bisphenol A in Supercritical Carbon Dioxide:	https://www.doi.org/10.1021/je200640q
The Solubility Behavior of Bisphenol A in the Presence of Surfactants:	https://www.doi.org/10.1021/je700235x

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
mvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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