

# 1,3-Benzodioxole, 5,5'-(tetrahydro-1H,3H-furo[3,4-c]furan-1,4-diyl)bis (1S,3aR,4S,6aR)-

Other names: (1S,3aR,4S,6aR)-1,4-Bis(benzo[d][1,3]dioxol-5-yl)hexahydrofuro[3,4-c]furan

Inchi:	InChI=1S/C20H18O6/c1-3-15-17(25-9-23-15)5-11(1)19-13-7-22-20(14(13)8-21-19)12-2-4
InchiKey:	PEYUIKBAABKQKQ-UHFFFAOYSA-N
Formula:	C20H18O6
SMILES:	c1cc2c(cc1C1OCC3C(c4ccc5c(c4)OCO5)OCC13)OCO2
Mol. weight [g/mol]:	354.35
CAS:	607-80-7

## Physical Properties

Property code	Value	Unit	Source
gf	5.90	kJ/mol	Joback Method
hf	-542.07	kJ/mol	Joback Method
hfus	70.30	kJ/mol	Joback Method
hvap	94.37	kJ/mol	Joback Method
log10ws	-4.38		Crippen Method
logp	3.219		Crippen Method
mvol	236.920	ml/mol	McGowan Method
pc	2450.74	kPa	Joback Method
rinpol	3150.90		NIST Webbook
rinpol	3150.90		NIST Webbook
tb	927.48	K	Joback Method
tc	1193.90	K	Joback Method
tf	642.22	K	Joback Method
vc	0.877	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	815.93	J/molxK	927.48	Joback Method
cpg	831.91	J/molxK	971.88	Joback Method
cpg	847.04	J/molxK	1016.29	Joback Method
cpg	861.58	J/molxK	1060.69	Joback Method
cpg	875.78	J/molxK	1105.10	Joback Method

cpg	889.86	J/molxK	1149.50	Joback Method
cpg	904.09	J/molxK	1193.90	Joback Method
dvisc	0.0054836	Paxs	642.22	Joback Method
dvisc	0.0045300	Paxs	689.76	Joback Method
dvisc	0.0038355	Paxs	737.31	Joback Method
dvisc	0.0033137	Paxs	784.85	Joback Method
dvisc	0.0029111	Paxs	832.39	Joback Method
dvisc	0.0025934	Paxs	879.94	Joback Method
dvisc	0.0023380	Paxs	927.48	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=C607807&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C607807&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>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>dvisc:</b>	Dynamic viscosity
<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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