Phenol, 4,4'-(1-methylethylidene)bis[2,6-dibromo-

Other names:	2,2',6,6'-Tetrabromo-4,4'-isopropylidene bisphenol
	2,2',6,6'-Tetrabromo-4,4-isopropylidenediphenol
	2,2',6,6'-Tetrabromobisphenol A
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol
	2,2-Bis(4-hydroxy-3,5-dibromophenyl)propane
	2,2-bis(3,5-dibromo-4-hydroxyphenyl)propane
	3,3',5,5'-Tetrabromo-4,4-dihydroxy-2,2-diphenylpropane
	3,3',5,5'-Tetrabromobisphenol A
	3,5,3',5'-Tetrabromobisphenol A
	4,4'-(1-Methylethylidene)bis[2,6-dibromophenol]
	4,4'-(propane-2,2-diyl)bis(2,6-dibromophenol)
	4,4'-Isopropylidenebis(2,6-dibromophenol)
	4,4'-Isopropylylidenebis(2,6-dibromophenol)
	BA 59
	Bromdian
	FG 2000
	FR-1524
	Fire Guard 2000
	Firemaster BP4A
	Great Lakes BA-59P
	NSC 59775
	Phenol, 4,4'-(2,2-propanediyl) bis[2,6-dibromo]-
	Phenol, 4,4'-isopropylidenebis[2,6-dibromo-
	Saytex RB 100PC
	Saytex RB-100
	Tetrabromobisphenol "A"
	Tetrabromobisphenol A
	Tetrabromodian
	Tetrabromodiphenylopropane
Inchi:	InChI=1S/C15H12Br4O2/c1-15(2,7-3-9(16)13(20)10(17)4-7)8-5-11(18)14(21)12(19)6-8/h
InchiKey:	VEORPZCZECFIRK-UHFFFAOYSA-N
Formula:	C15H12Br4O2
SMILES:	CC(C)(c1cc(Br)c(O)c(Br)c1)c1cc(Br)c(O)c(Br)c1
Mol. weight [g/mol]:	543.87
CAS:	79-94-7

Physical Properties

Property code	Value	Unit	Source
gf	12.60	kJ/mol	Joback Method
hf	-183.80	kJ/mol	Joback Method
hfus	46.42	kJ/mol	Joback Method
hvap	106.66	kJ/mol	Joback Method
log10ws	-7.83		Crippen Method
logp	6.474		Crippen Method
mcvol	256.430	ml/mol	McGowan Method
pc	4672.09	kPa	Joback Method
tb	1038.53	K	Joback Method
tc	1336.37	K	Joback Method
tf	453.15	K	Pyrolysis kinetics of tetrabromobisphenol a (TBBPA) and electric arc furnace dust mixtures
vc	0.829	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	638.01	J/mol×K	1038.53	Joback Method
cpg	654.04	J/mol×K	1088.17	Joback Method
cpg	671.95	J/mol×K	1137.81	Joback Method
cpg	692.17	J/mol×K	1187.45	Joback Method
cpg	715.13	J/mol×K	1237.09	Joback Method
cpg	741.28	J/mol×K	1286.73	Joback Method
cpg	771.03	J/mol×K	1336.37	Joback Method
dvisc	0.0000004	Pa×s	826.79	Joback Method
dvisc	0.0000003	Pa×s	862.08	Joback Method
dvisc	0.0000002	Pa×s	897.37	Joback Method
dvisc	0.0000001	Pa×s	932.66	Joback Method
dvisc	0.0000001	Pa×s	967.95	Joback Method
dvisc	7.8338700e-08	Pa×s	1003.24	Joback Method
dvisc	5.9764829e-08	Pa×s	1038.53	Joback Method
hfust	29.10	kJ/mol	451.50	NIST Webbook

Sources

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

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C79947&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Pyrolysis kinetics of tetrabromobisphenol a (TBBPA) and electric arc furnace dust mixtures:	https://www.doi.org/10.1016/j.tca.2017.12.022
Solubility of 2,2',6,6'-Tetrabromo-4,4'-isopropylidene Phenol in Aqueous Pollutant Solutions:	https://www.doi.org/10.1021/je400602s

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
hfust:	Enthalpy of fusion at a given temperature
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