



>>Variant: 2,3',4,4',5',6-Hexachlorobiphenyl

Synonym(s): PCB 168

CAS Registry Number: 59291-65-5

Molecular Formula: $C_{12}H_4Cl_6$

Molecular Weight: 360.88

Accurate Mass: 357.844412

Percentage Composition: C 39.94%; H 1.12%; Cl 58.94%

Melting Point: Mp 110-111° (108.5-109.5°)

>>Variant: 3,3',4,4',5,5'-Hexachlorobiphenyl

Synonym(s): PCB 169

CAS Registry Number: 32774-16-6

Molecular Formula: $C_{12}H_4Cl_6$

Molecular Weight: 360.88

Accurate Mass: 357.844412

Percentage Composition: C 39.94%; H 1.12%; Cl 58.94%

Use/Importance: Very toxic member of the PCB series

Melting Point: Mp 208-210° (201-202°)

References:

- Jensen, S. *et al.*, *Ambio*, 1974, **3**, 70-76, (*glc, detn in adipose tissue*)
Singh, P. *et al.*, *Acta Cryst. C*, 1986, **42**, 1172-1175, (*cryst struct, 2,2',4,4',5,5'-isomer*)
Giese, H.J. *et al.*, *Acta Cryst. C*, 1986, **42**, 1176-1178, (*cryst struct, 2,2',4,4',5,5'-isomer*)
Bolgar, M. *et al.*, *Chemosphere*, 1995, **31**, 2687-2705, (*rev, synth, glc, ir, ms*)
Frame, G.M., *Fresenius' Z. Anal. Chem.*, 1997, **357**, 701-713; 714-722, (*glc, detn in Aroclors*)
Andersson, P.L. *et al.*, *Fresenius' Z. Anal. Chem.*, 1997, **358**, 1088-1092, (*uv*)
Waller, S.C. *et al.*, *Org. Prep. Proced. Int.*, 1997, **29**, 679-685, (*synth, pmr, cmr, ms*)