



>>Entry Name: Decachlorobiphenyl

Synonym(s): 2,2',3,3',4,4',5,5',6,6'-Decachloro-1,1'-biphenyl, 9Cl. Perchlorobiphenyl. PCB 209

CAS Registry Number: 2051-24-3

(C₆Cl₅)-(C₆Cl₅)

Molecular Formula: C₁₂Cl₁₀

Molecular Weight: 498.659

Accurate Mass: 493.68852

Percentage Composition: C 28.90%; Cl 71.10%

Use/Importance: Used in estimation of total PCB content of environmental samples by perchlorination and glc analysis of the resultant decachlorobiphenyl

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 309°

References:

Wibaut, J.P. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1940, **59**, 298-302, (*synth*)

Safe, S. *et al.*, *J.C.S. Perkin I*, 1972, 686-691, (*ms*)

Mullin, M. *et al.*, *J. Anal. Toxicol.*, 1981, **5**, 138-142, (*glc, detn*)

Takamiya, K., *Bull. Environ. Contam. Toxicol.*, 1983, **30**, 600-605, (*PCB estimation*)

Yanagisawa, M. *et al.*, *Magn. Reson. Chem.*, 1986, **24**, 1013-1014, (*cmr*)