

**Polysulfonylamine, CXXII [1]  
Nicht-konventionelle Wasserstoff-  
brücken in Bis[diphenylphosphino-  
(diphenylphosphinselenid)methan]-  
gold(I)-di(methansulfonyl)amid**

Polysulfonylamines, CXXII.

Non-Conventional Hydrogen Bonds in  
Bis[diphenylphosphino(diphenylphos-  
phinselenide)methane]gold(I)  
Di(methanesulfonyl)amide

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Gold(I), Hydrogen Bonds, X-Ray Data

In the crystal structure of  $(\text{dppmSe})_2\text{Au}^+$   
 $\text{N}(\text{SO}_2\text{CH}_3)_2^-$  ( $\text{dppm} = \text{Ph}_2\text{PCH}_2\text{PPh}_2$ ) chains are  
formed from non-conventional hydrogen bonds  
of the type  $\text{C-H}\cdots\text{O}$ . Within these chains two bi-  
furcated hydrogen bond systems are present, each  
involving one methylene hydrogen ( $\text{H}\cdots\text{O}$  2.51,  
2.65 Å) and one phenyl hydrogen ( $\text{H}\cdots\text{O}$  2.31,  
2.35 Å) as donors.