

# Die Tieftemperaturkristallstruktur von Trimethylsilanol

The Low Temperature Crystal Structure of Trimethylsilanol

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Trimethylsilanol, Preparation, Crystal Structure

A preparation of trimethylsilanol by hydrolysis of bis(trimethylsilyl)carbonate in diethylether at  $-20\text{ }^{\circ}\text{C}$  is reported. At  $-80\text{ }^{\circ}\text{C}$ , the crystals are monoclinic, space group  $P2_1/c$ ,  $Z = 12$  with cell dimensions  $a = 996.0(2)\text{ pm}$ ,  $b = 1730.2(3)\text{ pm}$ ,  $c = 1122.9(2)\text{ pm}$ ,  $\beta = 96,61(3)^{\circ}$ . There are three independent  $\text{Me}_3\text{SiOH}$  units with a slightly distorted tetrahedral  $\text{C}_3\text{SiO}$  core structure.

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