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Molecular Structure determination of Trimethy [∝-(benzoylmethyl)] benzyl Silane

Taeb, A.*, Bolourtchian, M. and Tadjarodi, A.***

**Iran University of Science & Technology, Tehran, Iran*

***Chemistry & Chemical Engineering Research Center, Tehran, Iran*

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Abstract : The Crystal Structure of [∝ - (benzoylmethyl) benzyl] Silane $(CH_3)_3$ Si CH $(C_6H_5)CH_2$ COC_6H_5 has been determined by direct method (Sir). The dimensions of used crystal were $0.7 \times 0.3 \times 0.2$ mm. The molecular structure has been determined by MolEN program. This compound crystalizes in monoclinic space group $P2_1/n$ (14) with four molecules per unit cell. Lattice parameters of this compound are :

a = 6.0938 Å, b = 22.8465 Å, c = 12.0533 Å, β= 92.0605°

After last least - square cycle, the final R and R_w values are 0.087 and 0.093 , respectively.