

THE NEW METHOD OF 1,2- AND 1,7-DICARBADODECABORANES
FLUORINATION

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Reaction of 1,2- and 1,7-dicarbado-decaboranes (12) with fluoride leads to substitution of hydrogen by fluorine at the boron atoms, which yields in succession 9-fluoro-, 9,12-difluoro-, 8,9,12-trifluoro-, 8,9,10,12-tetrafluoro-1,2-dicarbado-decaboranes and 9-fluoro-, 9,10-difluoro-1,7-dicarbado-decaboranes. An X-ray structural study of 8,9,10,12-tetrafluoro-1,2-dicarbado-decaborane has been carried out. The compounds synthesized have been characterized by elemental analysis and ^1H , ^{11}B , ^1H , ^{19}F NMR spectroscopy.