MOLECULAR REARRANGEMENTS IN D:A-FRIEDO-OLEANANES: ACID CATALYSED REARRANGEMENT OF D:A-FRIEDO OLEAN-3-ENE-21-ONE

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Molecular rearrangement in D:A-friedo-oleananes have been extensively studied due to its potential in aiding structure elucidation(1) and in synthesis of complex triterpenes(3). Availability of a variety of D:A-friedo-oleananes(2), prompted us to apply molecular rearrangements for the synthesis of some rare/biologically active triterpenes and herein we report the acid catalyzed rearrangement of D:A-friedo-olean-3-ene-21-one.

Treatment ot D:A-friedo-olean-3-ene-21-one with glacial acetic acid and hydrochloric acid mixture in dichloromethane afforded olean-12-ene-21-one as the major product. Formation of this product is interesting as D:A-friedo-olean-3-ene under identical condition gave only olean-13(18)-ene.

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References

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