

Substituted methoxybenzene derivatives: C₈H₉NO₄, C₉H₁₁NO₅ and C₁₃H₁₈O₄.

Abstract

The structures of three methoxybenzenes, namely 1,2-dimethoxy-4-nitrobenzene, C₈H₉NO₄, (I), 1,2,3-trimethoxy-5-nitrobenzene, C₉H₁₁NO₅, (II), and 1-(2,4,5-trimethoxyphenyl)-1-butanone, C₁₃H₁₈O₄, (III), are reported. Molecules of (I) and (III) are planar, but one of the three methoxy groups of (II) is twisted out of the phenyl ring plane as a result of steric hindrance. In all three solids, the molecules are linked to form centrosymmetrically hydrogen-bonded dimers; they are packed in parallel layers in (I) and (II), but in zigzag layers in (III).