

Supporting Material

Reactivity of sulfonylbutadienes. Synthesis of Ginsenol analogues

David Díez,^{a*} Sonia G. Sanfeliciano,^a Javier Peña,^a M. Fe Flores,^a Pilar García, Narciso M. Garrido, Isidro S. Marcos, Andrew J. White,^b Pilar Basabe, and Julio G. Urones

^a*Departamento de Química Orgánica, Facultad de Ciencias Químicas, Universidad de Salamanca. Plaza de los Caídos 1-5, 37008 Salamanc, Spain*

^b*Department of Chemistry, Imperial College of Science, Technology and Medicine, London SW7 2AZ, UK*

E-mail: ddm@usal.es

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1. The X-ray crystal structure of 4a

Compound **4a** was found to crystallise in a polar space group with three crystallographically independent molecules (A, B and C) in the asymmetric unit, shown in Figure 3 in the paper (B), and Figures S1 (A) and S4 (C) here in the supporting information. The N(10) morpholine and the C(22) phenyl rings in molecule C were both found to be disordered. In each case two partial occupancy orientations were identified (of ca. 63 and 37% occupancy for the morpholine ring, and ca. 57 and 43% occupancy for the phenyl ring), the geometries were optimised, and only the non-hydrogen atoms of the major occupancy orientations were refined anisotropically.

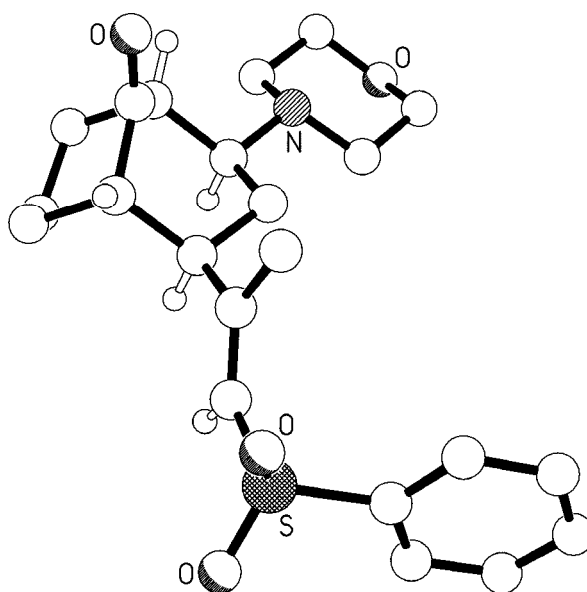


Figure S1. The molecular structure of one (A) of the three crystallographically independent molecules present in the crystals of **4a**.

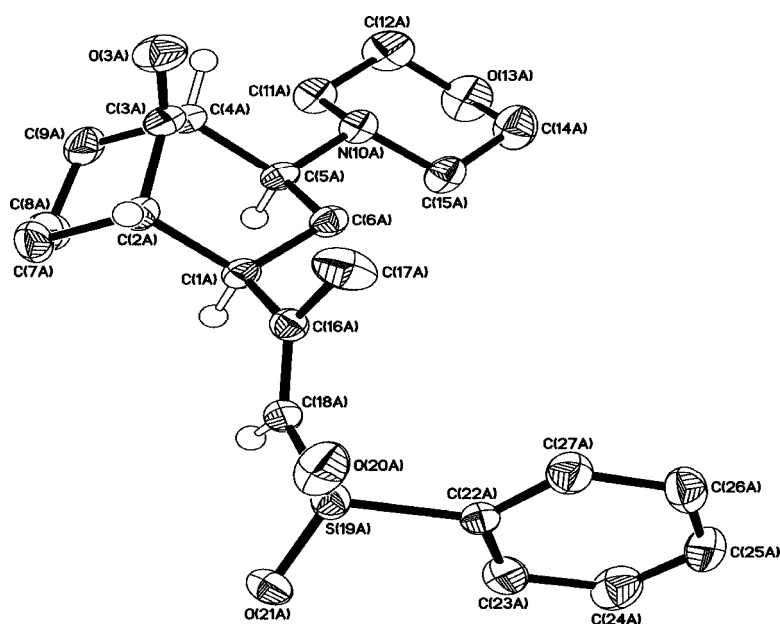


Figure S2. The molecular structure of one (A) of the three crystallographically independent molecules present in the crystals of **4a** (30% probability ellipsoids).

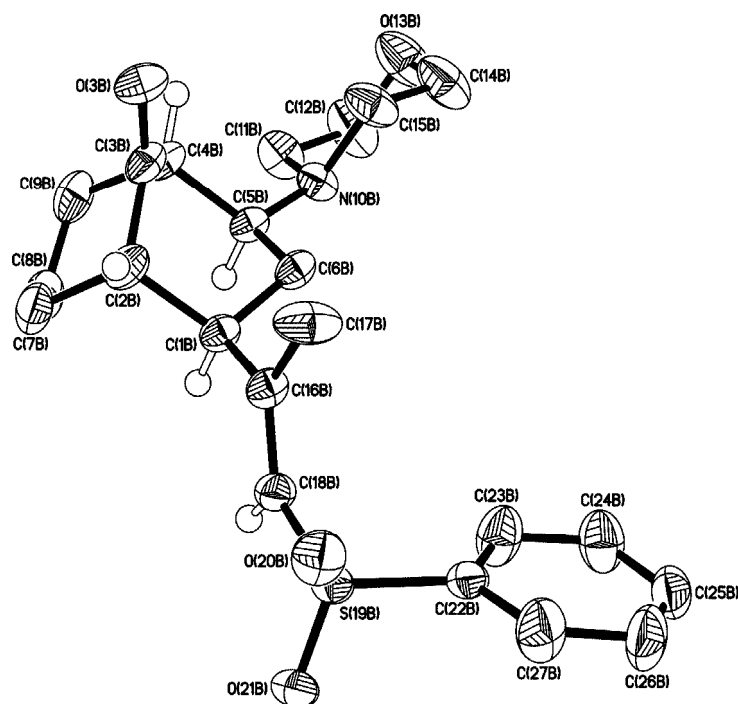


Figure S3. The molecular structure of one (B) of the three crystallographically independent molecules present in the crystals of **4a** (30% probability ellipsoids).

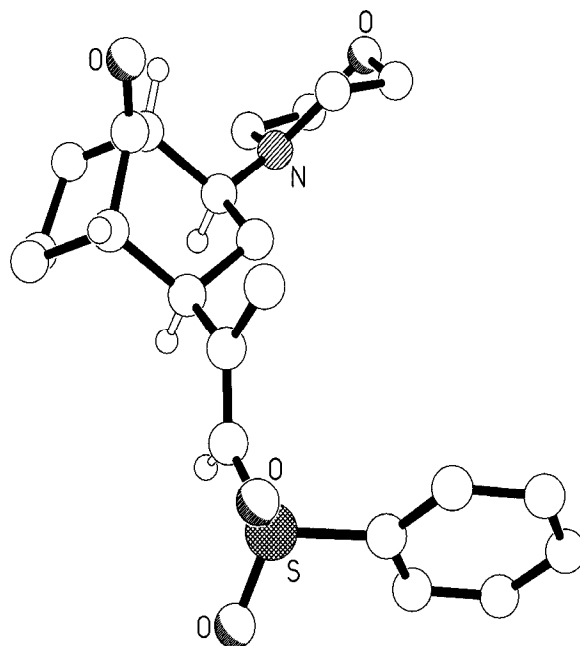


Figure S4. The molecular structure of one (C) of the three crystallographically independent molecules present in the crystals of **4a**.

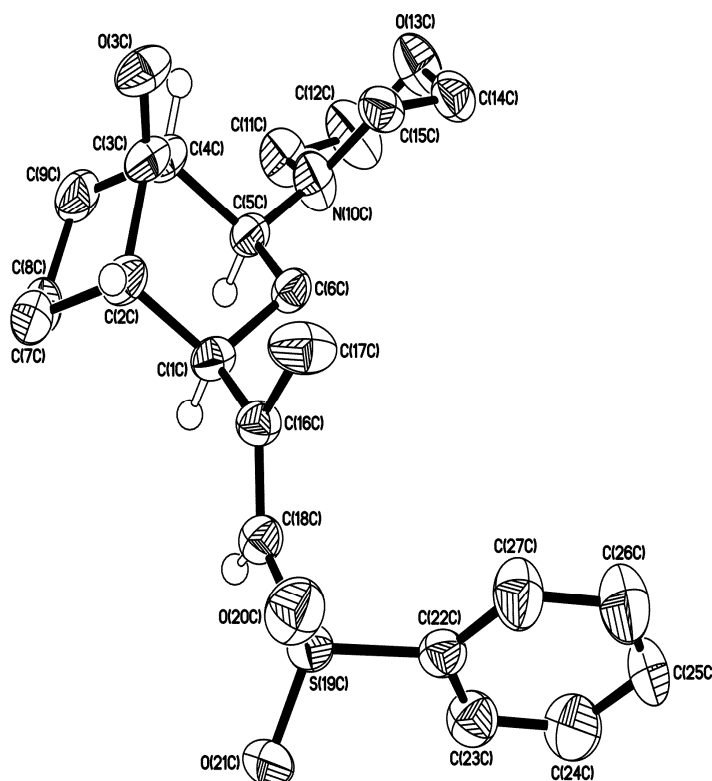


Figure S5. The molecular structure of one (C) of the three crystallographically independent molecules present in the crystals of **4a** (30% probability ellipsoids).