**Sulfinpyrazone**

**Item No. 17847**

CAS Registry No.: 57-96-5  
Formal Name: 1,2-diphenyl-4-[2-(phenylsulfinyl)ethyl]-3,5-pyrazolidinedione  
Synonyms: G-28315, NSC 75925  
MF: C_{23}H_{20}N_{2}O_{3}S  
FW: 404.5  
Purity: ≥98%  
UV/Vis.: \( \lambda_{\text{max}} \) = 245 nm  
Storage: -20°C  
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Sulfinpyrazone is supplied as a crystalline solid. A stock solution may be made by dissolving the sulfinpyrazone in the solvent of choice. Sulfinpyrazone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of sulfinpyrazone in ethanol is approximately 1 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Sulfinpyrazone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, sulfinpyrazone should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Sulfinpyrazone has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Sulfinpyrazone is a uricosuric agent that competitively inhibits uric acid (Item No. 16219) reabsorption in kidney proximal tubules, which is a key mechanism targeted in the treatment of gout.\(^1\)\(^2\) It can also inhibit degranulation of platelets, reducing the release of ADP and thromboxane and diminishing platelet aggregation.\(^3\)

### References