Bromazepam
Item No. 14260

CAS Registry No.: 1812-30-2
Formal Name: 7-bromo-1,3-dihydro-5-(2-pyridinyl)-2H-1,4-benzodiazepin-2-one
Synonyms: Compendium, Lexotanil, NSC 140669, Ro 5-3350
MF: C14H10BrN3O
FW: 316.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λmax: 233, 322 nm

Laboratory Procedures

For long term storage, we suggest that bromazepam be stored as supplied at -20°C. It should be stable for at least two years.

Bromazepam is supplied as a crystalline solid. A stock solution may be made by dissolving the bromazepam in the solvent of choice. Bromazepam is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of bromazepam in ethanol is approximately 10 mg/ml and approximately 25 mg/ml in DMSO and DMF.

Bromazepam is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, bromazepam should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Bromazepam 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.

Bromazepam is a psychoactive benzodiazepine derivative and prescription drug that is commonly abused and often used in ‘drug-facilitated crimes’.1,2 This product is intended for forensic and research applications.

References

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