α-Pyrolidinopentiophenone (hydrochloride) (exempt preparation)

Item No. 16058

CAS Registry No.: 5485-65-4
Formal Name: 1-phenyl-2-(1-pyrrolidinyl)-1-pentanone, monohydrochloride
Synonyms: O-2387, α-PVP, α-Pyrrolidinovanilophenone, 2-(1-pyrrolidinyl)-Valerophenone
MF: C_{15}H_{21}NO • HCl
FW: 267.8
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 251 nm

Laboratory Procedures

For long term storage, we suggest that α-pyrolidinopentiophenone (hydrochloride) (exempt preparation) be stored as supplied at -20°C. It should be stable for at least two years.

α-Pyrolidinopentiophenone (hydrochloride) (exempt preparation) is supplied as a solution in methanol. To change the solvent, simply evaporate the methanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of α-pyrolidinopentiophenone (hydrochloride) (exempt preparation) in these solvents is approximately 20, 10, and 3 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of α-pyrolidinopentiophenone (hydrochloride) (exempt preparation) is needed, it can be prepared by evaporating the methanol and directly dissolving the neat oil in aqueous buffers. The solubility of α-pyrolidinopentiophenone (hydrochloride) (exempt preparation) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Pyrovalerone is an inhibitor of the transporters for certain monoamine neurotransmitters, including dopamine and norepinephrine, preventing their uptake.1,2 α-Pyrolidinopentiophenone (hydrochloride) is an analog of pyrovalerone, lacking only the methyl group that is found on the phenyl moiety of pyrovalerone. Like pyrovalerone, this compound is expected to be a psychoactive stimulant. This product is intended for forensic applications.

References

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WARNING: This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.