1-(3,5-Dimethylphenyl)piperazine
Item No. 20627

CAS Registry No.: 105907-65-1
Formal Name: 1-(3,5-dimethylphenyl)piperazine
MF: C₁₂H₁₈N₂
FW: 190.3
Purity: ≥98%
UV/Vis.: λ<sub>max</sub>: 211, 252 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

1-(3,5-Dimethylphenyl)piperazine is supplied as a crystalline solid. A stock solution may be made by dissolving the 1-(3,5-dimethylphenyl)piperazine in the solvent of choice. 1-(3,5-Dimethylphenyl)piperazine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 1-(3,5-dimethylphenyl)piperazine in these solvents is approximately 30 mg/ml.

1-(3,5-Dimethylphenyl)piperazine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 1-(3,5-dimethylphenyl)piperazine should first be dissolved in DMF and then diluted with the aqueous buffer of choice. 1-(3,5-Dimethylphenyl)piperazine has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

1-(3,5-Dimethylphenyl)piperazine is a piperidine compound that is inactive at dopamine and serotonin receptors.<sup>1</sup> It may be used as a heterocyclic building block to develop bioactive compounds.

Reference