PRODUCT INFORMATION

2,4-Dichlorophenoxy Acetic Acid
Item No. 10190

CAS Registry No.: 94-75-7
Formal Name: 2-(2,4-dichlorophenoxy)-acetic acid
Synonyms: 2,4-D, Diclordon, Vidon 638
MF: C₈H₆Cl₂O₃
FW: 221.0
Purity: ≥ 97%
Stability: ≥ 2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_max = 205, 229, 285 nm

Laboratory Procedures

For long term storage, we suggest that 2,4-dichlorophenoxy acetic acid be stored as supplied at -20°C. It should be stable for at least two years.

2,4-Dichlorophenoxy acetic acid (2,4-D) is supplied as a crystalline solid. A stock solution may be made by dissolving the crystalline solid in an organic solvent purged with an inert gas. 2,4-D is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 2,4-D in these solvents is approximately 30 mg/ml.

2,4-D is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 2,4-D should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 2,4-D has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

2,4-D is a synthetic auxin, a class of plant growth regulators, that is often used as a supplement in plant cell culture media. It is also an active ingredient in herbicides that controls root elongation and cell production by disrupting the actin cytoskeleton.¹

Reference


WARNING
This product is for research only - not for human or veterinary diagnostic or therapeutic use.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman’s Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.