
Product Data Sheet

Product Name: 2,4-D (2,4-Dichlorophenoxyacetic acid)

Cat. No.: GC60459

Chemical Properties

Cas. No. 94-75-7

SMILES O=C(O)COC1=CC=C(Cl)C=C1ClFormula C8H6Cl2O3

M.Wt 221.04

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:1): 0.5 mg/ml

Store
Storage at -
20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure **Background**

2,4-Dichlorophenoxy acetic acid 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

1. Rahman, A., Bannigan, A., Sulaman, W., et al. Auxin, actin and growth of the Arabidopsis thaliana primary root. *Plant J.* 50:514-528 (2007)

Caution: Product has not been fully validated for medical applications. For research use only.

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