

Glyphosate

Common name: glyphosate

IUPAC name: *N*-(phosphonomethyl)glycine

Chemical Abstracts name: *N*-(phosphonomethyl)glycine

Molecular weight: 169.1

Molecular formula: C₃H₈NO₅P

Formulation: 10% AS

Applications

Biochemistry

Inhibits 5-enolpyruvylshikimate-3-phosphate synthase(EPSPS), an enzyme of the aromatic acid biosynthetic pathway. This prevents synthesis of essential aromatic amino acids needed for protein biosynthesis.

Mode of action:

Non selective systemic herbicide, absorbed by the foliage, with rapid translocation throughout the plant. Inactivated on contact with soil.

Uses

Control of annual and perennial grasses and broad-leaved weeds, pre-harvest, in cereals, peas, beans, oilseed rape, flax and mustard. Control of annual and perennial grasses and broad-leaved weeds in stubble and post-planting/pre-emergence of many crops. Applied at 1500-2250ml/ha.

10% AS characteristics:

Item	Index
Appearance	Light yellow to dark brown liquid
Content, %	10
PH value	4.0-8.5

TC characteristics:

Item	Index
Appearance	White powder
Content, %	95
Methyl alcohol, g/kg	≤0.8
Nitroso glyphosate,mg/kg	≤1.0
Sodium hydroxide,g/kg	≤0.2

Storage and transportation:

Put in a ventilated and dry place. Keep away from food, seed and feed. Do not touch eyes, skin and be absorbed by mouth and nose.