

Butralin

Common name: Butralin

IUPAC name: *N*-*sec*-butyl-4-*tert*-butyl-2,6-dinitroaniline

Chemical Abstracts name: 4-(1,1-dimethylethyl)-*N*-(1-methylpropyl)-2,6-dinitrobenzenamine

Molecular weight: 295.3

Molecular formula: C₁₄H₂₁N₃O₄

Formulation: 48%EC

Solubility:

In water 0.3mg/l(25 °C). In ethanol 73, methanol 98,hexane 300(all in g/l,25-26 °C); in dichloroethane 146, benzene 270, acetone 448(all in g/100ml,24 °C).

Applications:

Biochemistry :Microtubule assembly inhibitor.

Mode of action

Selective herbicide, absorbed by germinating seedling, with slow translocation acropetally. Also acts as a growth regulator, suppressing the growth of shoots, branches, and suckers.

Uses

Pre-emergence control of annual broad-leaved weeds and grasses in cotton, soya beans, rice, barley, beans, alliums, vines, ornamentals, and orchards of fruit and nut trees. Applied at 1080-1440ml/ha.

48%EC characteristics:

Item	Index
Appearance	Even liquid
Content, %	48
Water, %	≤0.5
Acid(calculated by H ₂ SO ₄)	≤0.5

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.