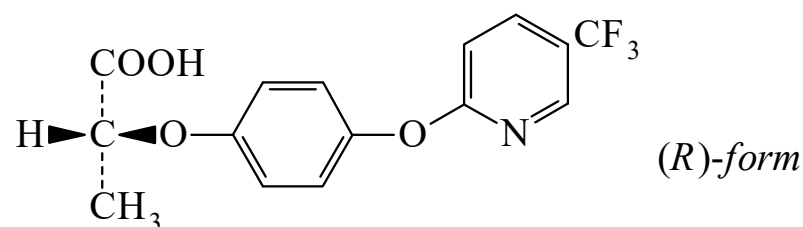




>>Entry Name: **Fluazifop**, ANSI, BSI, ISO

Synonym(s): 2-[4-[[5-(Trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propanoic acid, 9CI



CAS Registry Number: 69335-91-7

Related CAS Registry Numbers(s): 79241-47-7 86334-14-7 95977-30-3

Molecular Formula: C<sub>15</sub>H<sub>12</sub>F<sub>3</sub>NO<sub>4</sub>

Molecular Weight: 327.259

Accurate Mass: 327.071843

Percentage Composition: C 55.05%; H 3.70%; F 17.42%; N 4.28%; O 19.56%

Use/Importance: Fatty acid synth. inhibitor

>>Variant: (R)-form

Synonym(s): **Fluazifop-P**, ANSI, BSI, ISO

CAS Registry Number: 83066-88-0

Molecular Formula: C<sub>15</sub>H<sub>12</sub>F<sub>3</sub>NO<sub>4</sub>

Molecular Weight: 327.259

Accurate Mass: 327.071843

Percentage Composition: C 55.05%; H 3.70%; F 17.42%; N 4.28%; O 19.56%

>>Derivative: Butyl ester

Synonym(s): **Fluazifop-P-butyl**. Fusilade P. Fusilade 5. Fusilade 2000. PP005. ICIA0005

CAS Registry Number: 79241-46-6

Molecular Formula: C<sub>19</sub>H<sub>20</sub>F<sub>3</sub>NO<sub>4</sub>

Molecular Weight: 383.366

Accurate Mass: 383.134443

Percentage Composition: C 59.53%; H 5.26%; F 14.87%; N 3.65%; O 16.69%

Use/Importance: Herbicide. More active than racemate

Physical Description: Liq.

Melting Point: Mp 5°

>>Variant: (±)-form

CAS Registry Number: 86023-37-2

Molecular Formula: C<sub>15</sub>H<sub>12</sub>F<sub>3</sub>NO<sub>4</sub>

Molecular Weight: 327.259

Accurate Mass: 327.071843

Percentage Composition: C 55.05%; H 3.70%; F 17.42%; N 4.28%; O 19.56%

>>Derivative: Butyl ester

Synonym(s): **Fluazifop-butyl**. Fusilade. Onecide. PP009

CAS Registry Number: 69806-50-4

Use/Importance: Herbicide

Physical Description: Pale straw liq.

Melting Point: Mp 13°

**Hazard & Toxicity:** LD<sub>50</sub> (rat, orl) 3330 mg/kg

#### References:

- Boize, L.M., *Meded. Fac. Landbouwwet., Rijksuniv. Gent*, 1981, **46**, 117, (activity)  
Urano, K., *Jpn. Pestic. Inf.*, 1982, **41**, 28, (activity, props)  
Bewick, D.W., *Pestic. Sci.*, 1986, **17**, 349, (activity)  
Cartwright, D., *Proc. Br. Crop Prot. Conf. Weeds*, 1989, 707, (rev, synth, enantiomers, biol activity)  
Brown, R.W. *et al.*, *J. Agric. Food Chem.*, 1990, **38**, 269, (synth)  
Hwang, K.-J. *et al.*, *Synth. Commun.*, 1990, **20**, 949, (synth, pmr)  
*Pesticide Manual*, 9th edn., 1991, No. 6400  
Mutsaers, J.H.G. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1991, **110**, 185, (synth)  
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, FDA885