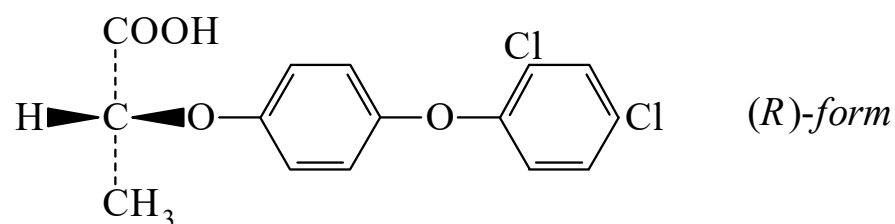




>>Entry Name: Diclofop, ANSI, BSI, ISO, WSSA

Synonym(s): 2-[4-(2,4-Dichlorophenoxy)phenoxy]propanoic acid, 9Cl



CAS Registry Number: 40843-25-2

Related CAS Registry Numbers(s): 75045-48-6

Molecular Formula: $C_{15}H_{12}Cl_2O_4$

Molecular Weight: 327.163

Accurate Mass: 326.011264

Percentage Composition: C 55.07%; H 3.70%; Cl 21.67%; O 19.56%

Use/Importance: Herbicide. Fatty acid synthetase inhibitor

>>Variant: (R)-form

CAS Registry Number: 71283-28-8

Molecular Formula: $C_{15}H_{12}Cl_2O_4$

Molecular Weight: 327.163

Accurate Mass: 326.011264

Percentage Composition: C 55.07%; H 3.70%; Cl 21.67%; O 19.56%

Melting Point: Mp 80-100°

Optical Rotation: $[\alpha]_D^{23} +10.4$ (0.86M in $CHCl_3$)

>>Derivative: Me ester

CAS Registry Number: 71283-65-3

Boiling Point: $Bp_{0.02}$ 167°

Optical Rotation: $[\alpha]_D^{23} +22.3$ (1M in $CHCl_3$)

>>Variant: (S)-form

CAS Registry Number: 75021-71-5

Molecular Formula: $C_{15}H_{12}Cl_2O_4$

Molecular Weight: 327.163

Accurate Mass: 326.011264

Percentage Composition: C 55.07%; H 3.70%; Cl 21.67%; O 19.56%

Melting Point: Mp 85-87°

Optical Rotation: $[\alpha]_D^{23} -14.3$ (c, 0.617 in $CHCl_3$)

>>Derivative: Me ester

CAS Registry Number: 75021-72-6

Optical Rotation: $[\alpha]_D^{23} -27.7$ (0.47M in $CHCl_3$)

>>Variant: (±)-form

CAS Registry Number: 75045-49-7

Molecular Formula: $C_{15}H_{12}Cl_2O_4$

Molecular Weight: 327.163

Accurate Mass: 326.011264

Percentage Composition: C 55.07%; H 3.70%; Cl 21.67%; O 19.56%

Melting Point: Mp 107-108.5°