



Herbicides for the control of black-grass, wild-oats or Italian rye-grass grouped according to biochemical mode of action.



Group	Mode of action	Chemical Family	Active Ingredient	Product name (example)
1 (A)	Inhibition of acetyl CoA carboxylase (ACCase)	Aryloxyphenoxy-propionates ('fops')	clodinafop-propargyl fenoxaprop-P-ethyl fluazifop-P-butyl propaquizafop quizalofop-P-ethyl quizalofop-P-tefuryl	<i>Topik</i> <i>Foxtrot</i> <i>Fusilade Max</i> <i>Falcon</i> <i>Pilot Ultra</i> <i>Panarex</i>
		Cyclohexanediones ('dims')	clethodim cycloxydim	<i>Centurion Max</i> <i>Laser</i>
		Phenylpyrazolines ('dens')	pinoxaden	<i>Axial Pro</i>
2 (B)	Inhibition of acetolactate synthase (ALS)	Sulfonylureas	iodosulfuron-methyl-sodium mesosulfuron-methyl nicosulfuron sulfosulfuron-methyl	<i>Hussar</i> <i>in Atlantis WG</i> <i>Samson</i> <i>Monitor</i>
		Triazolopyrimidine	pyroxsulam	<i>in Broadway Star</i>
		Sulfonylaminocarbonyl-triazolinones	propoxycarbazone-sodium	<i>Attribut</i>
5 (C1,C2)	Inhibition of photosynthesis at PSII – D1 Serine 264 binders	Triazinones	metamitron metribuzin	<i>Goltix</i> <i>Sencorex</i>
		Ureas	chlorotoluron	<i>Various</i>
14 (E)	Inhibition of protoporphyrinogen oxidase (PPO)	N-phenylphthalamides	flumioxazin	<i>SumiMax</i>
12 (F1)	Inhibition of phytoene desaturase	Inhibitors of PDS	picolinafen	<i>in Picona</i>
9 (G)	Inhibition of Enolpyruvyl Shikimate Phosphate Synthase	Glycines	glyphosate	<i>Roundup</i>
3 (K1)	Microtubule assembly inhibition	Dinitroanilines	pendimethalin	<i>Stomp</i>
		Benzamides	propyzamide	<i>Kerb</i>
23 (K2)	Inhibition of microtubule organisation	Carbamates	carbetamide	<i>Carbetamex</i>
15 (K3)	Inhibition of very long chain fatty acids	Chloroacetamides	metazachlor	<i>Butisan</i>
		Oxyacetamide	flufenacet	<i>in Liberator, Crystal</i>
		Thiocarbamates	prosulfocarb tri-allate	<i>Defy</i> <i>Avadex</i>
		Benzofurans	ethofumesate	<i>Nortron Flo</i>
32	Inhibition of Solanesyl Diphosphate Synthase (SDS)	Nitrophenyl ethers	aclonifen	<i>Proclus</i>
30	Inhibition of the enzyme family fatty acid thioesterase	Benzyl ether	cinmethylin	<i>Luxinum Plus</i>
Ø (15)	Unknown mode of action	Acetamides	napropamide	<i>Devrinol</i>

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This Table is based on information in "The 2021 UK Pesticide Guide", Editor: M. A. Lainsbury and WRAG industry experts