



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) |
|----------------------|---|--|---|---|
| A | Inhibition of acetyl CoA carboxylase (ACCase) | Aryloxyphenoxy-propionates ('fops') | clodinafop-propargyl diclofop-methyl fenoxaprop-P-ethyl fluazifop-P-butyl propaquizafop quizalofop-P-ethyl quizalofop-P-tefuryl | <i>Topik</i> in <i>Tigress Ultra</i> <i>Warrant</i> <i>Fusilade Max</i> <i>Falcon</i> <i>Pilot Ultra</i> <i>Panarex</i> |
| | | Cyclohexanediones ('dims') | clethodim cycloxydim sethoxydim tepraloxym tralkoxydim | <i>Centurion Max</i> <i>Laser</i> <i>Checkmate</i> <i>Aramo</i> <i>Grasp</i> |
| | | Phenylpyrazolines ('dens') | pinoxaden | <i>Axial</i> |
| B | Inhibition of acetolactate synthase (ALS) | Sulfonylureas | flupyr-sulfuron-methyl-sodium iodosulfuron-methyl-sodium mesosulfuron-methyl nicosulfuron sulfosulfuron-methyl | <i>Lexus</i> <i>Hussar</i> in <i>Atlantis WG</i> <i>Samson</i> <i>Monitor</i> |
| | | Triazolopyrimidine | pyroxsulam | in <i>Broadway Star</i> |
| | | Sulfonylaminocarbonyl-triazolinones | propoxycarbazone-sodium | <i>Attribut</i> |
| | | Imidazolinones | imazamethabenz-methyl | <i>Dagger</i> |
| C₁ | Inhibition of photosynthesis at photosystem II | Triazines | atrazine cyanazine simazine terbutryn | Various <i>Fortrol</i> Various <i>Alpha terbutryn</i> |
| | | Triazinones | metamitron metribuzin | <i>Goltix</i> <i>Sencorex</i> |
| C₂ | Inhibition of photosynthesis at photosystem II | Ureas | chlorotoluron isoproturon metoxuron | Various Various <i>Dosaflor</i> |
| D | Photosystem-1-electron diversion | Bipyridyliums | paraquat diquat | <i>Gramoxone</i> <i>Reglone</i> |
| E | Inhibition of protoporphyrinogen oxidase (PPO) | N-phenylphthalamides | flumioxazin | <i>SumiMax</i> |
| F₁ | Bleaching: inhibition of carotenoid biosynthesis | Inhibitors of PDS | flurtamone | in <i>Bacara</i> |
| F₃ | Bleaching: inhibition of carotenoid biosynthesis | Triazoles | amitrole | <i>Weedazol</i> |
| G | Inhibition of EPSP synthase | Glycines | glyphosate | <i>Roundup</i> |
| H | Inhibition of glutamine synthetase | Phosphinic acids | glufosinate-ammonium | <i>Harvest</i> |
| K₁ | Microtubule assembly Inhibition | Dinitroanilines | pendimethalin trifluralin | <i>Stomp</i> <i>Treflan</i> |
| | | Benzamides | propyzamide tebutam | <i>Kerb</i> <i>Comodor</i> |
| K₂ | Inhibition of mitosis/microtubule organisation | Carbamates | carbetamide propham | <i>Carbetamex</i> <i>Tripart Sentinal</i> |
| K₃ | Inhibition of cell division | Acetamides Chloroacetamides Oxyacetamide | napropamide metazachlor flufenacet | <i>Devrinol</i> <i>Butisan</i> in <i>Liberator, Crystal</i> |
| N | Inhibition of lipid synthesis – not ACCase inhibition | Thiocarbamates | tri-allate pro-sulfocarb ethofumesate | <i>Avadex</i> <i>Defy</i> <i>Nortron Flo</i> |
| | | Benzofurans | | |

This Table is based on information in "The 2012 UK Pesticide Guide", Editor: M. A. Lainsbury, CABI/British Crop Protection Council, and 'The World of Herbicides, 2010', produced by the Herbicide Resistance Action Committee (HRAC).
Herbicides in grey are no longer available in the UK.