

Methoxyacetic acid

General Overview

Chemical Name: 2-Methoxyacetic Acid

Formula: $C_3H_6O_3$

CAS Number: 625-45-6

Key Derivatives: Methoxyacetyl chloride, methyl methoxyacetate, salts and esters

Industrial Role: Used as an intermediate in the manufacture of agrochemicals, pharmaceuticals, dyes, and specialty chemicals.

Agrochemical Sector

Methoxyacetic acid is a crucial precursor in the synthesis of several systemic fungicides. Its conversion to methoxyacetyl chloride enables the introduction of the methoxyacetyl functional group in agrochemicals.

Products that require MAA in their preparation:

- Metalaxyl (fungicide)
- Mefenoxam (R-metalaxyl) (fungicide)
- Oxadixyl (fungicide)



Pharmaceutical and Fine Chemicals Sector



MAA and its derivatives act as building blocks in fine chemical and pharmaceutical synthesis.

Products/intermediates requiring MAA derivatives:

- Methoxyacetyl chloride (used in drug & fine chemical synthesis)
- Methyl methoxyacetate (ester, used in fine chemicals)

Dyes, Textiles, and Specialty Chemicals



Although restricted due to toxicity, MAA and its derivatives historically found use in specialty chemical applications. Some niche industrial uses remain in controlled B2B settings.

- Dye intermediates
- Textile auxiliaries
- Plasticizers / specialty resins

Sector	Product/Use	Role of MAA
Agrochemicals	Metalaxyl	Source of methoxyacetyl group (via methoxyacetyl chloride)
	Mefenoxam (R-metalaxyl)	Same as above
	Oxadixyl	Provides 2methoxyacetamide functionality
Pharmaceutical/Fine Chem	Methoxyacetyl chloride	Acylation agent for APIs, dyes, agrochemicals
	Methyl methoxyacetate	Ester intermediate for fine chemicals
	N-(2,6-Dimethylphenyl)-2methoxyacetamide	Intermediate toward oxadixyl
	β -Lactams, N-(2methoxyacetyl) benzamides	Synthetic building blocks
Dyes & Textiles	Dye intermediates	Acyl chloride route
	Plasticizers, textile auxiliaries, flotation agents	Specialty/niche uses

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