



THE HANSON GROUP. LLC
GOOD PEOPLE, GREAT SCIENCE

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4,4'-MDA

TECHNICAL DATA SHEET

PRODUCT NAME: 4,4'-Methylenedianiline

CAS NO: 101-77-9

PRODUCT INFORMATION:

4,4'-Methylenedianiline, denoted by the abbreviation MDA and also known as methylenedianiline, is an organic compound supplied by Actylis (ACETO). It is a primary amine that contains two benzene rings, making it an aniline derivative. Actylis (ACETO) provides it in the form of a white to light yellow solid, which exhibits slight solubility in water. This compound serves as a reagent in the synthesis of various esters, amides, and other organic compounds. Moreover, it finds application in the synthesis of anti-inflammatory drugs and displays excellent antioxidant properties. Additionally, 4,4'-Methylenedianiline is a common raw material used in the synthesis of antibiotics, anti-malarial drugs, and anti-cancer drugs such as doxorubicin. It can act as an agonist to certain neurotransmitters while inhibiting enzymes responsible for neurotransmitter breakdown. Furthermore, it is utilized as a raw material and reagent in the synthesis of dyes and polymers. It also functions as a curing agent for epoxy resins and serves as a widely used rubber additive.

Test Items(s)	Specifications
Boiling Point	398 °C
Melting Point	92.5 °C
Solubility	Slightly soluble in cold water. Very soluble in alcohol, benzene, ether
Molecular Weight	198.26 g/mol

SHELF LIFE

The shelf life is 24 months under recommended storage conditions. After 24 months, retest material.