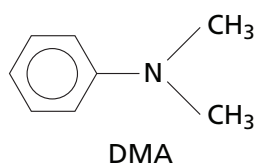


DMA Alkyl Aniline In Imaging Dyes



Characteristics and Properties

Name	N,N-dimethylaniline
Appearance	Clear pale yellow liquid
Empirical Formula	C ₈ H ₁₁ N
Molecular Weight	121
Boiling Point (°C)	192.8
Specific Gravity @ 25°C	0.954
Vapor Pressure (mm Hg)	1 @ 30°C
Solubility	Soluble in aromatics, alcohols, acetone and insoluble in water

Application

A photographic, medical or graphic arts image represents a complex combination of a variety of diverse materials, an important one of which is the dye component. Cytec N,N-dimethylaniline (DMA) alkyl aniline is used as a raw material and acid acceptor in the manufacture of dyes for the imaging industry. The product serves as an intermediate in the synthesis of azo based color and methine blocking dyes. As an acid acceptor, the products will react to form anilinium salts.

Features And Benefits

- | | |
|---|--|
| 1. Possesses powerful electron releasing NR ₂ groups | Readily couples with diazonium salts, yielding azo dye compounds |
| 2. High reactivity | Will undergo Friedel-Crafts alkylation with oxalyl chloride yielding methine dye intermediates |
| 3. Liquid form | Soluble in organics, easily added to reaction mixture |
| 4. Low cost | Economical |
| 5. Basicity | Functions as acid acceptor, forming anilinium salts |

Markets

Manufacturers of imaging dyes are encouraged to consider evaluating DMA as a raw material and acid acceptor in dye synthesis.

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PRT-0004-A-EN-WW-10B