



## DIMETHYLACETAMID (DMAC)



### PRODUCT SPECIFICATIONS

|                          | PHARMACEUTICAL<br>QUALITY | ANALYTICAL METHOD<br>(PHARMACEUTICAL) | TEXTILE<br>QUALITY | ANALYTICAL METHOD<br>(TEXTILE) |
|--------------------------|---------------------------|---------------------------------------|--------------------|--------------------------------|
| Physical Appearance      | Transparent Liquid        | Eye control                           | Trans. Liquid      | Eye Control                    |
| Purity                   | Min.99.9%                 | Gas Chromatographic                   | Min.99.6%          | Gas Chromatographic            |
| Water (by Weight)        | Max. 0,02%                | Coulometer                            | Max.0.1%           | Coulometer                     |
| Color (APHA)             | Max. 5                    | Colorimetric                          | Max.10             | Colorimetric                   |
| Acidity (As Acetic Acid) | Max.0.01                  | Titrimetric                           | Max.0.3%           | Titrimetric                    |

### PHYSICAL AND CHEMICAL PROPERTIES

|                                     |  |
|-------------------------------------|--|
| Molecular Weight                    | : 87.12  |
| Boiling Point (°C) (760 mmHg)       | : 165.5  |
| Freezing Point (°C)                 | : -20  |
| Density (15.6 °C)                   | : 0.9448   |
| Heat of Vaporization                | : 10.36 kcal/gr.mole   |
| Heat of Combustion                  | : 608 kcal/gr.mole   |
| Flash Point (°C)                    | : 490  |
| Heat of Formation (Liquid, 0.87 °C) | : 0.485 cal/gr. °C   |
| Combustion Limits                   | : Minimum: by volume 2%<br>: Maximum: by volume 11.5%  |
| Vapor Pressure                      | : 1.3      3.4      18      46      230      758      (mmHg)<br>: 25      40      70      90      130      165.5      (°C) |
| Solubility                          | : Ability to solve completely in water, ether, ester, keton and aromatic compounds   |
| Hydrolyze                           | : Tendency to hydrolyze with water solutions at high temperatures.   |

### PACKAGING

Bulk in stainless tanks and 190 kg plastic drums.

### STORAGE

DMAC can be stored in stainless tanks or plastic drums for 1 year without losing its properties.

### USES

- Plastic, resin, gum and solvents for electrolytes.
- Catalyst, paint remover, high purity solvent for crystallization and refining processes.
- Polymer solvent in production of acrylic fiber.

### ACCIDENTAL RELEASE MEASURES

Keep away of eye, skin and cloth contact and avoid inhalation of the vapor. For protection, wear Personal Protective Equipment.

In case of inhalation of DMAC vapor, get person out of the contaminated area to fresh air. If breathing has stopped, artificial respiration should be started. If hardly be available to inspire, oxygen must be administered and seek medical attention immediately. In case of eye exposure, flush eyes with plenty of water at least 15 minutes.

At skin exposure, take off the contaminated clothing immediately and wash the skin with plenty of water for 15minutes. Seek for medical attention immediately. Make sure that the clothing is properly cleaned before reusing.

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