



## Hebei InnoNew Material Technology Co., Ltd.

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### Diethanol Isopropanolamine (DEIPA)

| Items              | Standard                                 |
|--------------------|--|
| Appearance         | Colorless to light yellow viscous liquid |
| Purity, GC, %      | ≥ 85.0                                   |
| Water, %           | ≤ 15                                     |
| Diethanol amine, % | ≤ 2                                      |
| Other Alcamine, %  | ≤ 3                                      |

#### Description:

Diethanol Isopropanolamine (DEIPA) is a versatile chemical compound with the formula  $C_7H_{17}NO_3$ , widely used across various industries due to its properties as an alkanolamine.

#### Application:

**Cement Grinding Aid:** It enhances grinding efficiency by preventing cement particle agglomeration, reducing energy consumption, and increasing mill output. It improves cement strength at all hydration stages, particularly early and late strength, with notable effects in cements blended with fly ash and slag.

#### Concrete Admixtures:

DEIPA is used in formulating concrete admixtures, improving workability, durability, and strength of concrete. It is compatible with materials like naphthalene sulfonate, melamine sulfonate, lignin sulfonate, and polycarboxylate-based raw materials. It enhances the performance of concrete in construction projects, supporting global infrastructure demands

#### Surfactants:

DEIPA serves as a raw material in producing surfactants, used in personal care products such as shampoos, hair sprays, skin lotions, liquid soaps, and moisturizers. Its low surface tension aids in wetting and spreading on surfaces.

#### Corrosion Inhibition:

DEIPA acts as a corrosion inhibitor in industries like petroleum refining and chemical processing, protecting metal equipment under acidic or caustic conditions. This is critical for maintaining operational safety and efficiency.

#### Pesticide Formulations:

In agriculture, DEIPA is used as a solvent and dispersing agent in herbicide and pesticide formulations, enhancing the solubility of active ingredients to improve efficacy. This application is driven by advancements in agricultural practices

**Gas Treating and Metal Working:**

DEIPA is utilized in gas-treating products to neutralize acidic components and in metal-treating equipment to enhance performance and protect surfaces.

**Other Applications:**

DEIPA is employed in textile manufacturing, wood treatment, and pigment/dye production due to its solubility and chemical stability. Its ability to neutralize fatty acids and sulfonic acid-based surfactants makes it valuable in various chemical synthesis processes

**Package:**

200kg/drum, 16MT/20'FCL

1000kg/IBC Tank, 20MT/20'FCL or 23MT/Flexitank