

UNIPLEX 125-A
DIOCTYL ADIPATE
[DI (2-ETHYL HEXYL) ADIPATE]
CAS NO. 103-23-1

Uniplex 125-A is a versatile plasticizer that is compatible with many polymers, including polyvinyl chloride, polyvinyl acetate, polyvinyl butyral, ethyl cellulose, nitrocellulose, and cellulose acetate butyrate.

Uniplex 125-A is approved as an indirect food addition under 21CFR 175.105, 177.1210, 177.2600, and 178.3740.

Uniplex 125-A provides superior flexibility to vinyl products at low temperatures compared to dioctylphthalate.

In comparison to dioctylphthalate, Uniplex 125-A is advantageous in preparing vinyl dispersions with low initial and stable viscosity.

The electrical resistivity and low dissipation factor of Uniplex 125-A make it especially useful in electrical insulation applications. Other suggested applications are polyvinyl chloride film, polyvinylidene chloride film, and adhesive and coatings formulations.

SPECIFICATIONS:

Appearance	Clear Liquid
Acid No. (mg KOH/g)	0.15 maximum (equivalent to 0.02% Adipic Acid)
Color (APHA)	25 maximum
Refractive Index (25°C)	1.444 - 1.448
Specific Gravity (25°C)	0.922 - 0.927
Assay	99.0 minimum
Moisture, %	0.1 maximum

PROPERTIES:

Molecular Weight	371
Odor	Mild
Density (25°C)	7.72
Boiling Point (10 mm Hg)	224°C

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(760 mm Hg)	417°C
Freezing Point (760 mm Hg)	Below -70°C
Solubility in Water	Practically insoluble

HANDLING INFORMATION:

Refer to Material Safety Data Sheet

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale. Suggestions for uses of our products should not be understood as recommendations that they be used in violation of any patents.

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