



## COREPLAST DOA

**CHEMICAL NAME** Bis(2-ethylhexyl) adipate

**Molecular Formula** C<sub>22</sub>H<sub>42</sub>O<sub>4</sub>

**Cas No** 103-23-1

**Einecs No** 203-090-1

### PRODUCT FEATURES

- ✓ It increases the fluidity of plastisols as it provides low viscosity when used alone or together with other plasticizers.
- ✓ It provides excellent flexibility to the product even at low temperatures and prevents breakage.
- ✓ Does not contain phthalates.
- ✓ Provides volumetric advantage since its density is low.
- ✓ It provides the product with the desired elasticity.
- ✓ Provides electrical resistance.
- ✓ It does not cause any change in the chemical structure of the polymer.
- ✓ It provides the desired change in physical and mechanical properties.
- ✓ In general, it can gel all polymeric materials easily and quickly.

### USE AREA

- ✓ COREPLAST DOA is used primarily as a plasticizer in the flexible vinyl industry and is widely used in flexible poly(vinyl chloride) (PVC) food film (cling film). It is commonly blended with di(2-ethylhexyl) phthalate (see monograph in this volume) and di(isooctyl) phthalate in PVC and other polymers. It is used as a solvent and as a component of aircraft lubricants. It is important in the processing of nitrocellulose and synthetic rubber, in plasticizing polyvinyl butyral, cellulose acetate butyrate, polystyrene and dammar wax and in cosmetics.

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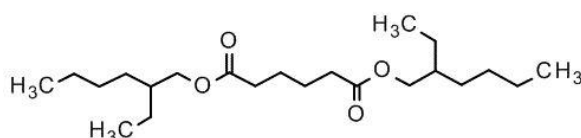
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## Dioctyl Adipate (DOA)

### STRUCTURE



### PHYSICAL PROPERTIES

| Analysis                 | Standard Method        | Unit              | Standard    |
|--------------------------|------------------------|-------------------|-------------|
| DOA Ester Content        | GC                     | %                 | Min. 99,50  |
| % 2-EHA                  | GC                     | %                 | Max. 0,20   |
| % Water                  | Karl Fischer           | %                 | Max. 0,05   |
| % Acid Number            | ASTM D-1045            | mg KOH/gm         | Max. 0,10   |
| Color APHA               | ISO 2211:1973          | Hazen             | Max. 20     |
| Specific Gravity @ 25 °C | TS 1724 EN<br>ISO 1675 | g/cm <sup>3</sup> | 0,916-0,924 |
| Flash Point              | ASTM D-92<br>Open cup  | °C                | Min. 195    |
| Odor                     |                        |                   | Specific    |

### SAFETY

COREPLAST DOA requires handling with care and in accordance with good safety practices. Avoid breathing vapors by providing adequate ventilation and wearing mask. Always refer to the Material Safety Data Sheet (MSDS) for detailed information.

### PACKAGE

COREPLAST DOA is available in bulk, tank trucks, IBC tanks or barrels.

### STORAGE

COREPLAST DOA has an almost unlimited shelf life when it is properly stored in closed and dry containers.