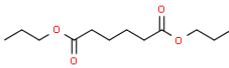


DI-NORMAL PROPYL ADIPATE (DNPA)

1. Basic Information

| | |
|--------------------|--|
| Product Name | Di-Normal Propyl Adipate (DNPA) |
| Structural Formula |  |
| Chemical Formula | C ₁₂ H ₂₂ O ₄ |
| CAS No. | 106-19-4 |
| Description | Use in Propellants Emollient Skin conditioning solvent |

2. Specifications

| Items | Specification |
|-------------------------------------|-------------------|
| Appearance | Clear Liquid |
| Colour (APHA / Hazen / Pt-Co / PCU) | 30 max. |
| Assay(GC) | 99% min. |
| Acidity | 0.1 % Max. |
| Specific Gravity (at 20 °C) | 0.972 to 0.982 |
| Refractive Index (at 20°C) | 1.429 to 1.433 |
| Ash | 0.002 % Max. |
| Freezing Point | -13 °C to - 19 °C |

3. Additional Information

Applications:

Use in Propellants • Emollient • Skin Conditioning Solvent

Packaging and Shelf Life:

DNPA is supplied in 200 kg drums and 1000 kg IBC.

DNPA can be stored for at least 2 years in original closed container in a cool and dry place.