

SIBUR**DOTP**
Diethyl terephthalate

- ▶ Plasticizer DOTP is an ester of 2-ethylhexanol and terephthalic acid, which is used as a commercial plasticizer with high dielectric properties, high cold resistance, reduced volatility.
- ▶ Product characteristic: appearance - clear liquid free from suspended substances and mechanical impurities; transportation – in tank containers, recommended grades T11-T22, and road tanks.
- ▶ Guaranteed shelf life – 1 year from the date of production. Storage of the plasticizer is recommended in heated metal tanks to maintain the temperature above 0°C and not higher than plus 40 °C. Storage and transportation of the plasticizer require measures for the protection of the plasticizer from moisture and exposure to direct sunlight.

| <i>Parameter</i> | <i>Norm</i> | <i>Test method</i> |
|--|--------------------------|---|
| Colour, Pt-Co scale, Hazen units, max | 15 | GOST 8728, para. 3.4 ASTM D 1209 |
| Density at 20°C, g/cm ³ | 0.981-0.987 | GOST 18995.1 GOST R 57037 ASTM D 4052 |
| Diethyl terephthalate, %, min | 99.0 | TS 20.59.56-029-53505711 |
| Acid value, mg KOH/g of the plasticizer, max | 0.03 | TS 20.59.56-029-53505711 |
| Water, %, max | 0.05 | GOST 14870, section 2 ISO 760 |
| Volatiles, %, max: | 0.10 | GOST 8728, para. 3.11 |
| - at 100 °C for 6 hours | | TS 20.59.56-029-53505711 |
| - at 125 °C for 3 hours | | |
| Refractive index: | 1.487-1.492 | GOST 18995.2 |
| - at 20 °C | | |
| - at 25 °C | 1.487-1.493 | TS 20.59.56-029-53505711 |
| Volume Resistivity at 30 °C, Ω·cm, min | 4·10¹¹ | TS 20.59.56-029-53505711 |
| Flash point, open cup, °C, min | 220 | GOST 4333 |