

DINP (DIISONONYL PHTHALATE)

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▪ **DINP is a general plasticizer, next to DOP. It is used for PVC films, leather, seats, electrical wires and paste sol.**

CAS No: 28553-12-0
RTECS No: CZ3850000

$C_{26}H_{42}O_4$
Molecular mass: Average 421

Physical Property

Boiling point at 0.7kPa:..... 244-252°C

Melting point:.....-43°C

Relative density (water = 1):..... 0.98

Solubility in water, g/100 ml at 20°C:<0.01 very poor

Vapour pressure, Pa at 20°C:..... <0.01

Flash point:221°C c.c.

Auto-ignition temperature:380°C

Explosive limits, vol% in air:0.4-2.9

Octanol/water partition coefficient as log Pow:8.8

| DINP | |
|-------------------------------|-----------------------------|
| Color(APHA) | 20↓ |
| Specific gravity (20/20°C) | 0.976 ± 0.003 |
| Acid value (KOH mg/g) | 0.02↓ |
| Ester value | 267 ± 3 |
| Refraction index (nD25) | 1.484 ± 0.003 |
| Heat loss (wt%) | 0.07↓ |
| Volume resistance (Ωcm, 30°C) | 5.0 x 10 ¹¹ ↑ |