



## DINGNUO POLYMER TECHNOLOGY GROUP CO., LTD

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### 1,2-Cyclohexane Dicarboxylic Acid, Di-isononyl Ester (DINCH)

#### **PROPERTY:**

DINCH is a **high-safety, phthalate-free, and benzene-free C9 plasticizer**. It is a hydrogenated derivative of DINP, appearing as a colorless, odorless, transparent oily liquid with excellent compatibility with PVC. Compared with conventional plasticizers, DINCH offers superior migration resistance, enhanced heat resistance, cold resistance, durability, good processability, and very low volatility. It is suitable for sensitive PVC applications that require stringent safety and environmental compliance.

#### **APPLICATION:**

DINCH is recommended for high-safety, non-toxicity products, including medical blood bags, child toys, gloves, food packaging films, refrigerator sealing strips, eco-friendly wall papers.

#### **SPECIFICATION:**

Item of Analysis	Unit	Value
Appearance		Transparent oily liquid
Relative Density	(20°C), g/cm <sup>3</sup>	0.944-0.954
Ester Content	% ≥	99.5
Acid Value	KOH mg/g ≤	0.07
Water Content	% ≤	0.10
Color	Platinum-Cobalt No. ≤	15
Flash Point	°C ≥	205
Refractive Index	(20°C)	1.406-1.466
Phthalate Content	% ≤	0.01

#### **PACKING:**

In iron drums, 200kg net weight per drum, total 80 drums (16MT) per 20' FCL, OR  
In IBC tank, 1,000kg net weight per tank, total 20 tanks (20MT) per 20' FCL, OR  
In flexibag, around 21-23MT per 20' FCL.

#### **STORAGE/TRANSPORTATION:**

If stored in tanks, purge N<sub>2</sub> to prevent moisture absorption.  
If stored in drums, keep the container sealed when not in use.