

Technical Data Sheet

April 2015

Formula

C₂₄H₄₆O₄

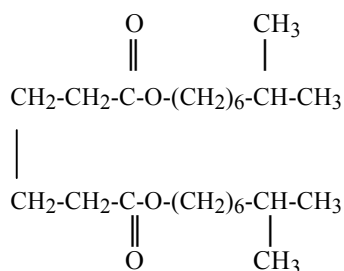
Molecular Weight

398

CAS Registry Number

33703-08-01

Molecular Structure



Description

Payflex A90 is a light coloured, oily liquid generally used as a plasticizer for PVC. It can be used alone or blended with other plasticizers such as DOP. In PVC Payflex A90 features flexibility as low temperature, good electrical properties, and good resistance to weathering and good stability to heat. Payflex A90 is used to produce clear films for food packaging applications. In addition to PVC Payflex A90 is compatible with nitrocellulose, Ethyl Cellulose, most synthetic rubbers and high butyryl cellulose, acetate butyrate. Payflex A90 can also be used as a plasticizer and skin – condition agent in cosmetic and personal care applications

Payflex A-90

(DINA-Di-Iso-Nonyl Adipate)

Product Specifications	Value	Test Method
Specific gravity @ 27°C	0.905-925	ASTM D-1045
Ester Content ,%weight, minimum	99.50	ASTM D-1045
Volatile loss @130°C/3 hours, %weight	0.10	PPTM
Colour ,Pt-Co ,unit(HU) ,maximum	20	ASTM D-1045
Plasticizing Ester ,% by GLC , minimum	99.50	ASTM D-1045
Water , % by weight , maximum	0.10	ASTM E-203
Heat stability @ 180°C / 2 hours	50	IS-9591-96
Acidity as Acid % by mass ,maximum	0.02	ASTM D-1045
Ester Value (mgKOH/gm)	278-284	ASTM D-1045
Suspended matter	COLSFFM*	Visual

*Clear Oily Liquid Substantially Free Of Foreign Material

Typical Physical Properties

Apparent Specific Gravity @ 27/27°C.....	0.915
Boiling Point @ 6.7 mbar, °C.....	228
Pour Point, °C	- 68
Absolute Viscosity @ 20°C, cp.....	20-25
Refractive Index N _D 27.....	1.450
Flash Point (COC) °C.....	215
Odor.....	Mild Characteristic

*The Properties value above are just for reference and not to be considered as guaranteed

Applications

Payflex A90 plasticizer is more effective than Payflex P90 plasticizer in providing flexibility at low temperatures to vinyl products. Special application for Payflex A90 include its use in unfilled garden hose, In clear film where resistance to discoloration by long exposure to heat and and ultraviolet light is important and in food wrap films. The superior solvency of Payflex A90 compared with Payflex P90 is an advantage in preparing vinyl dispersions with low initial viscosity and good viscosity stability. Payflex A90 plasticizer is also compatible with nitrocellulose, ethyl cellulose, most synthetic rubbers and high butyryl cellulose acetate butyrate.

Safety

Payflex A90 does not require special handling. Handle in accordance with good industrial hygiene and safety practices. Avoid eye contact by wearing personal protective equipment. Avoid repeated or prolonged skin contact. Avoid breathing vapors by providing adequate ventilation.

Packaging

Payflex A90 is available in bulk and drum packaging.

Storage & Handling

Payflex A90 can be stored in suitable containers at temperature below 40°C can the exclusion of humidity for at least 1 year.

“We stretch ourselves to give you flexibility “