

Technical Data Sheet

January 2014

Formula

C₁₂H₁₄O₄

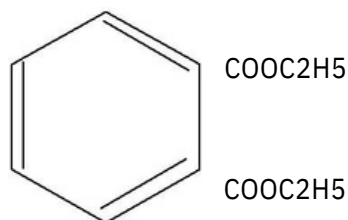
Molecular Weight

222

CAS Registry Number

84-66-2

Molecular Structure



Description

The outstanding cost performance characteristics and balance of properties of Payflex P20 have made it the most widely used solvent in cosmetics & perfumeries. Payflex P20 (DEP) is a phthalate ester, namely the diethyl ester of phthalic acid. It is a clear substance that is liquid at room temperature and is only slightly more dense than liquid water. It has a faint, disagreeable odor and can be transferred from the plastics that contain it.[3] When burned, DEP produces toxic gases.

Payflex P--20

(DEP-Di Ethyl Phthalate)

Product Specifications	Value	Test Method
Specific gravity @ 27°C	1.114-1.120	ASTM D-1045
Ester Content ,%weight, minimum	99.50	ASTM D-1045
Volatile loss @110°C/1 hours, %weight	0.20	PPTM ASTM D-1045
Colour ,Pt-Co ,unit(HU) ,maximum	20	ASTM D-1045
Plasticizing Ester ,% by GLC , minimum	99.50	ASTM E-1045
Water , % by weight , maximum	0.20	IS-9591-96
Heat stability @ 150°C / 2 hours(HU)	35	ASTM D-1045
Acidity as Acid % by mass ,maximum	0.015	ASTM D-1045
Ester Value (mgKOH/gm)	503 ± 3	Visual
Suspended matter	COLSFFM*	
*Clear Oily Liquid Substantially Free Of Foreign Material		

Typical Physical Properties

Boiling Point @ 6.7 mbar, °C.....	299
Absolute Viscosity @ 20°C, cp.....	13
Refractive Index ND 27.....	1.5
Flash Point (COC) °C.....	160
Odor.....	mild characteristic

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

Applications

Payflex P20 is mostly used to bind cosmetics and fragrances. Used in the manufacturing of varnishes, dhoop & agarbatti (incense sticks). Used as camphor substitute. Also used as plasticizer in solid rocket propellants & cellulose esters.

Safety

Payflex P20 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 P20 is available in bulk and drum packaging.

Storage & Handling®

Payflex P20 has 24 month of shelf life when properly stored in closed containers and kept in cool,dry and ventilated area.

“We stretch ourselves to give you flexibility “

Em ail: mts@payalgroup.com
Website: www.payalgroup.com