

# Phosflex® 362

**Phosflex®**  
Flame Retardant Plasticizers

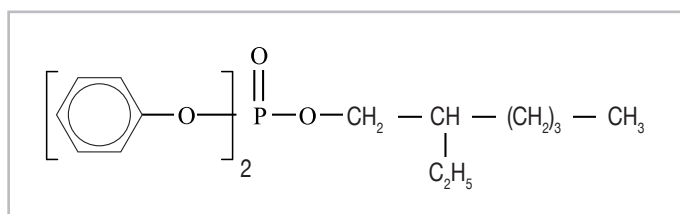
## Chemical Name:

2-Ethylhexyl Diphenyl Phosphate ester

## CAS#

2-ethylhexyl diphenyl phosphate 1241-94-7

Triphenyl phosphate 115-86-6



## Overview

Phosflex® 362 is a highly efficient plasticizer for PVC, with very good low temperature flexibility and excellent solvating properties for fast fusion.

One of the unique characteristics of Phosflex® 362 is its ability to reduce flammability while also reducing smoke. Typically when flame retardants are used, the combustion efficiency of the compound is decreased, and as a result, smoke (incomplete combustion particles and gases) increase. Phosflex® 362 can deliver low smoke properties and effective levels of flame retardancy in many types of polymer systems, especially flexible vinyl and vinyl alloys.

Phosflex® 362 has excellent compatibility in PVC and other plastics. Formulated correctly, it performs well in vinyl composites for outdoor applications where exposure to UV irradiation and weathering is critical. Phosflex® 362 has been found useful in flame retardant foamed vinyl and vinyl alloys (PVC/

nitrile rubber), calendared sheet goods, and outdoor PVC applications. In certain rubbers, it can be useful as a solvating material to improve the tactile feel and flexibility of elastomeric composites. Phosflex® 362 also has the advantage of FDA approvals for certain food packaging applications.

## Typical Properties:

Physical appearance	Clear, transparent liquid
Phosphorus content wt. %	8.5
Specific gravity 20°C/20°C	1.090
Density @ 20°C lbs/gal	9.1
Density @ 20°C kg/m <sup>3</sup>	1090
Viscosity @ 25°C mPa.s	18
Acidity as H3PO4 wt.%	0.01
Water content wt. %	0.10
Color APHA	<40



## Thermogravimetric Analysis

(10°C/min. in nitrogen):

2% wt. loss 182°C

5% wt. loss 198°C

10% wt. loss 211°C

## Safety & Handling

Consult the Safety Data Sheet for this product.

Shipping Information

Available in bulk tank trucks, isocontainers, 2,200 lb totes, and 533 lb drums.

Visit our Website: [www.icl-group.com](http://www.icl-group.com)

For more information about our products and to place an order, please contact one of our regional sales offices.

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