

# Technical information

## TRIPHENYL PHOSPHINE OXIDE

Synonyms:	TPPO		
CAS number:	791-28-6	EINECS number:	212-338-8
Formula:	[C <sub>6</sub> H <sub>5</sub> ] <sub>3</sub> OP; [C <sub>18</sub> H <sub>15</sub> ] OP	Molecular weight:	278.29
HTS number.:	29310095	TSCA	

	<b>SPECIFICATION</b>	<b>TYPICAL VALUES</b>
Appearance	white to off white crystalline solid	white to off white powder or flakes
Assay (GC)	99.5% min.	99.9%
Loss on drying	1.0% max.	0.1%

### PROPERTIES

Solubility	partly soluble in water soluble in aromatic hydrocarbons, ether, chloroform, acetone slightly soluble in ethanol
Melting point	155 °C
Flash point	180 °C
Boiling point	> 360 °C
Odor	weak, characteristic
Bulk density	0.7 kg/l

### PACKING

50 kg net UN-approved fiberboard drums

### HEALTH & SAFETY, SHIPPING

Not regulated	X <sub>i</sub> -irritant
Codes / markings	R 22; 52/53 S 60



### APPLICATIONS

- flame retardant
- organic synthesis a.o. dehydrating to unsaturated compounds
- crystallizing agent
- epoxy curing agent
- anti-fouling agent in ethylene furnaces (USPat 4,900,426)
- metal extractant together with TOPO
- as polymer film in capacitors (USPat 6,493,208)

March 2010;TPPO 03089  
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