

**TRIPHENYL PHOSPHINE**

Synonyms:	TPP		
CAS number:	603-35-0	EINECS number:	210-036-0
Formula:	(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> P	Molecular weight:	262.29
HTS number:	29310095		

**SPECIFICATION**

Appearance	white to off white solid
Assay (GC)	99.0 % min.
Loss on drying	1.0 % max.
Triphenylphosphine oxide (GC)	1.0 % max.
Melting point	79-81 °C

**TYPICAL ANALYSIS**

white to off white powder or flakes
99.45 %
0.1 %
0.40 %
80-81 °C

**PROPERTIES**

Solubility	insoluble in water soluble in aromatic hydrocarbons, ether, chloroform, acetone slightly soluble in ethanol
Melting point	81 °C
Boiling point	377 °C
Odor	distinct
Bulk density	~ 0.5 kg/l

**PACKING**

50 kg net UN-approved fiberboard drums

**HEALTH & SAFETY, SHIPPING**

Not regulated	
Classification	X <sub>n</sub> – harmful
Codes / markings	R22, 43, 53 S22, 24, 37

**APPLICATIONS**

- reagent in Wittig reactions: synthesis of vitamin A, carotenoids etc.
- catalyst ligand in oxo-syntheses
- curing accelerator for epoxy, polyester and other resins
- catalyst for polymerization of synthetic resins
- starting material for phosphonium quaternaries

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