

TRIPHENYL PHOSPHINE

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

SPECIFICATION

Appearance	white to off white solid	TYPICAL ANALYSIS	white to off white powder or flakes
Assay (GC)	99.0 % min.		99.45 %
Loss on drying	1.0 % max.		0.1 %
Triphenylphosphine oxide (GC)	1.0 % max.		0.40 %
Melting point	79-81 °C		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
Codes / markings

X_n – harmful
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

March 2010; TPP 02337
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