

## Triphenylantimony (TPA) PRODUCT INFORMATION

### TYPE

PMC Organometallics, Inc. Triphenylantimony [CAS 603-36-1] is a free flowing, off-white to tan crystalline solid with the following properties:

### TYPICAL PHYSICAL PROPERTIES

Properties	Typical Values
Formula	C <sub>18</sub> H <sub>15</sub> Sb
Molecular Weight	353.1
EINECS No.	210-037-6
Melting Point (°C)	52-54°C
Boiling Point (°C @ 760 mm hg)	360
Density (g/mL)	1.5
Bulk Density (lbs/ft <sup>3</sup> )	44
Solubility	Insoluble in water. Slightly soluble in ethyl alcohol. Soluble in benzene, toluene, petroleum, ethyl ether and chloroform.

### APPLICATIONS

General Area	Reaction/Application	Remarks
Catalysis	Polymerization	Low pressure, UV-induced, and Ziegler-Natta polymerization of ethylene, propylene, norbornene and other olefins. Polymerization of bisglycol esters, epoxides and formaldehyde.
	Dimerization and Oligomerization	Reactions of propylene and acrylonitrile. Butadiene-acrylic acid and isoprene-methyl acrylate co-monomer systems.
	Oxo	Ligand for transition metal catalyzed hydroformylation of olefins Acetaldehyde from methanol and synthesis gas.
	Reduction	Selective hydrogenation of olefins and acetylenes. Reduction of aromatic nitro compounds.
	Other	Disproportionation and hydrosilylation of olefins. Allylic rearrangement reactions.
Additives	Antioxidant	Inhibit oxidation of aldehydes and olefins.
	Corrosion Inhibitor	Prevent corrosion of steel in mild acid solution.
	Flame Retardant	For polyester, epoxy, polyimide, polyether and polyolefin resins.
	Gasoline/Oil	Gasoline antiknock agent. Additives for lubricants and hydraulic fluids.
Photography	Antifog	Fog inhibitor and image stabilizer in photosensitive films and copying materials.
Biocidal	Pesticide	Fungicide, bactericide and termite repellent.

**In US**  
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## PRODUCT INFORMATION

### PRODUCT FEATURES

Triphenylantimony has excellent shelf stability and is an excellent antioxidant at high temperatures.

### PACKAGING

Triphenylantimony is available in 50 lb pails and 200 lb drums.

### RECOMMENDED USES

Please see Applications table.

**NOTE:** Please consult MSDS for updated and detailed safety and health information.



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