

# Technical information

## BENZYLTRIPHENYLPHOSPHONIUM CHLORIDE

Synonyms:	BenzPh <sub>3</sub> PCl		
CAS number:	1100-88-5	EINECS number:	214-154-3
Formula:	[C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> P(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> ]Cl	Molecular weight:	388.9
HTS no.:	29310095		

### SPECIFICATION

		TYPICAL ANALYSIS
Appearance	White to off white crystalline powder	White to off white crystalline powder
Assay (titration)	98.0% minimum	99.0%
Volatile	0.5% maximum	0.1-0.2%
Melting point / decomposition	320 °C minimum	>320 °C
Chloride content	9.1% minimum	9.2%
Triphenylphosphine / Triphenylphosphine oxide content (TLC)	0.5% maximum	<0.1%


### PROPERTIES

Melting point	327 - 333 °C	
Solubility	in water (25 °C): 66 g/l	in ethanol (25 °C): 617 g/l
Thermal decomposition	> 323 °C	
Odour	nearly odourless	
Bulk density	~ 0.8 kg/l	

### PACKING

25 kg	fibre drums with sealed polyethylene inner bag; gross weight 27.2 kg
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### HEALTH & SAFETY, SHIPPING

Classification	T –Toxic	
UN no.	3278	
Codes / markings	class 6.1 II	
Risk Phrases:	R 24/25, 36/37, 52/53	
Safety Phrases:	S 22, 36/37, 45-61	
LD <sub>50</sub> (rat):	43 mg/kg	
Inhalative: LC <sub>50</sub> /4 h(rat):	130 mg/l	

### APPLICATIONS

- Catalyst in fluoroelastomer production
- Phase Transfer Catalysis (PTC)
- Polymerization and Curing
- Wittig Reaction
- Carbonylation / Hydroformylation
- Electrostatic Applications
- Corrosion Inhibition