

Technical information

TETRAPHENYLPHOSPHONIUM BROMIDE

Synonyms:	Ph ₄ PBr		
CAS number:	2751-90-8	EINECS number:	220-393-4
Formula:	[(C ₆ H ₅) ₄ P]Br	Molecular weight:	419.3
HTS no.:	29310095		

SPECIFICATION

TYPICAL ANALYSIS

Appearance	White to offwhite crystals	White to offwhite crystals
Assay	98.0% minimum	98.5%
Bromide	18.7–20.0%	18.8%
Volatile	1.0% maximum	0.1%
Melting point	290°C minimum	298–301°C

PROPERTIES

Melting point	300 - 302 °C
Solubility	in water (25 °C): 19 g/l in ethanol (25 °C): 778 g/l
Thermal decomposition	> 350 °C
Odour	nearly odourless
Bulk density	~ 0.57 kg/l

PACKING

10kg, 30kg	coated steel drums
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HEALTH & SAFETY, SHIPPING

Classification	X _n -Harmful
Codes / markings	R21/22, 36/38, 52/53 S22, 24/25, 36, 61



LD ₅₀ (acute, oral-mice):	318 mg/kg
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APPLICATIONS

- Phase Transfer Catalysis (PTC)
- Polymerization and Curing
- Wittig Reaction
- Biocidal Applications
- Carbonylation / Hydroformylation
- Electrostatic Applications
- Corrosion Inhibition

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