

Technical information

BUTYLTRIPHENYLPHOSPHONIUM CHLORIDE

Synonyms:	BuPh ₃ PCl, BTC, BTPC BTPPCI		
CAS number:	13371-17-0	EINECS number:	236-443-3
Formula:	[(C ₆ H ₅) ₃ PC ₄ H ₉]Cl	Molecular weight:	354.9
HTS no.:	29310095		

SPECIFICATION

		TYPICAL ANALYSIS
Appearance	White to offwhite crystalline powder	White to offwhite crystalline powder
Assay (DSC)	98.0 mol % min	98.5 mol %
Melting point (DSC)	225 - 229 °C	226.9 °C
Volatile	1.0% max	0.1%
Chloride	9.75% min	9.85%
Solubility in 10% EtOH	clear, no residue	clear, no residue
Triphenyl phosphine (TLC)	1.0% max	0%
Triphenyl phosphine oxide (TLC)	0.5% max	0%

PROPERTIES

Solubility	in water (25 °C): 290 g/l in ethanol (25 °C): >1000 g/l
Thermal decomposition	>265 °C
Odor	nearly odorless
Bulk density	about 0.5 kg/l

PACKING

25 kg	fiber drums with sealed polyethylene inner bag; gross weight 27.7 kg
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HEALTH & SAFETY, SHIPPING

Classification	X _n – harmful
Codes / markings	R 21/22, 36/37/38, 52/53 S 22, 24/25, 36/37, 61
LD ₅₀ (acute, oral - rats):	320 mg/kg
Mutagenicity (Salmonella typhimurium):	negative



APPLICATIONS

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

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