

**PRODUCT TECHNICAL SPECIFICATION**

STW: 691/5

**TRADE NAME**            **Phosphorus trichloride**

**CHEMICAL NAME**      Phosphorus (III) chloride

**TECHNICAL REQUIREMENTS**

Appearance at (20±25) °C..... colourless, clear liquid

Density at 20 °C, g/ml ..... 1.570 ÷ 1.580 (PN-C-82057:2000)

Phosphorus (III) chloride, % (w/w) ..... min. 99.50 (<sup>31</sup>P-NMR)

**GENERAL DATA**

Solubility in water ..... reacts violently  
producing high heat of reaction

Molecular weight ..... approx. 137

Boiling point, °C ..... 78

Solidification point, °C ..... -111.8

Odour ..... pungent, similar  
to hydrogen chloride

**APPLICATION**

In pharmaceutical and chemical industries for syntheses.  
In case Purchaser would like to use the product for different application than indicated in Product Technical Specification, then shall contact PCC Rokita for consultancy, by sending an e-mail to fosfory@pcc.rokita.pl

<b>PACKAGING</b>	Tanker vehicles, containers and drums made of appropriate grades of steel (e.g. St 35 or St 37) and other packaging as agreed with the customer, optimally use packaging with the following code: 6HA1).	
<b>STORAGE CONDITIONS</b>	Store in tightly closed containers, protected against humidity or water flooding, at a temperature of up to 30 °C. Due to high vapour pressure, do not expose the substance to high temperatures. Use the product as quickly as possible. In the case of phosphorus trichloride delivered in drums pump the product as soon as possible into storage containers. Guaranteed period of stability: 12 months from the date of manufacture. After the expiry of this period, the product can be used upon verifying the conformity of its parameters with the technical requirements.	
<b>TRANSPORT</b>	ADR-RID IMDG ICAO-TI i IATA-DGR	UN 1809, Class 6.1, (8), packing group I UN 1809, Class 6.1, (8), packing group I Forbidden
<b>HAZARD SYMBOL</b>	Pictograms  Signal word	GHS05 GHS06 GHS08 Danger
<b>R-PHRASES</b>	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H330 fatal if inhaled. H372 Causes damage to organs through prolonged or repeated exposure. EUH014 Reacts violently with water. EUH029 Contact with water liberates toxic gas.	
<b>S-PHRASES</b>	P280 wear protective gloves/protective clothing/eye protection/face protection. P284 Wear respiratory protection. P310 Immediately call a POISON CENTER or doctor /physician. P305+P351+P338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tightly closed.	
<b>NUMBER DATE</b>	STW: 691/5 Phosphorus trichloride 2015.04.24	