>>**Entry Name: Dichlorophenylborane,** 12Cl, 9Cl
**Synonym(s):** Phenylboron dichloride. Phenyldichloroborane

**CAS Registry Number:** 873-51-8
$PhBCl_2$

**Molecular Formula:** $C_6H_5BCl_2$
**Molecular Weight:** 158.822
**Accurate Mass:** 157.986134
**Percentage Composition:** C 45.38%; H 3.17%; B 6.81%; Cl 44.64%
**Source/Synthesis:** Synth. from $BCl_3$ + $SnPh_4$
**Use/Importance:** Lewis acid used for ether cleavage and selective condensations; phenylating agent
**Physical Description:** Moisture-sensitive liq.
**Melting Point:** Mp 7°
**Boiling Point:** Bp 175°
**Hazard & Toxicity:** Fumes in air. Pyrophoric when hot

**Aldrich:** 10134-6
**Fluka:** 78373

>>**Derivative:** $Et_3N$ complex
**Synonym(s):** Dichlorophenyl(triethylamine)boron. Dichloro(*N,N*-diethylethanamine)phenylboron, 10Cl. Dichlorophenylborane *N,N*-diethylethanamine, 9Cl, 8Cl. Dichlorophenylborane triethylamine

**CAS Registry Number:** 17520-47-7
**Molecular Formula:** $C_{12}H_{20}BCl_2N$
**Molecular Weight:** 260.013
**Accurate Mass:** 259.106583
**Percentage Composition:** C 55.43%; H 7.75%; B 4.16%; Cl 27.27%; N 5.39%
**Physical Description:** Solid
**Melting Point:** Mp 88-90°

**References:**


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