



**Molecular Formula:** C<sub>18</sub>H<sub>19</sub>N  
**Molecular Weight:** 249.355  
**Accurate Mass:** 249.151749  
**Percentage Composition:** C 86.70%; H 7.68%; N 5.62%  
**Other Data:** Also used in chiral form

>>Variant: 4-Cyano-4'-hexylbiphenyl

**Synonym(s):** CB6

**CAS Registry Number:** 41122-70-7  
**Molecular Formula:** C<sub>19</sub>H<sub>21</sub>N  
**Molecular Weight:** 263.382  
**Accurate Mass:** 263.167399  
**Percentage Composition:** C 86.65%; H 8.04%; N 5.32%  
**Melting Point:** Mp 16.7-17.5°  
**Boiling Point:** Bp<sub>3</sub> 237-240°  
**Aldrich:** 33864-8

>>Variant: 4-Cyano-4'-heptylbiphenyl

**Synonym(s):** CB7

**CAS Registry Number:** 41122-71-8  
**Molecular Formula:** C<sub>20</sub>H<sub>23</sub>N  
**Molecular Weight:** 277.408  
**Accurate Mass:** 277.183049  
**Percentage Composition:** C 86.59%; H 8.36%; N 5.05%  
**Melting Point:** Mp 30-31.5°  
**Boiling Point:** Bp<sub>2</sub> 210-211°  
**Aldrich:** 33081-7

>>Variant: 4-Cyano-4'-octylbiphenyl

**Synonym(s):** CB8

**CAS Registry Number:** 52709-84-9  
**Molecular Formula:** C<sub>21</sub>H<sub>25</sub>N  
**Molecular Weight:** 291.435  
**Accurate Mass:** 291.198699  
**Percentage Composition:** C 86.55%; H 8.65%; N 4.81%

**Aldrich:** 33868-0

>>Variant: 4-Cyano-4'-nonylbiphenyl

**Synonym(s):** CB9

**CAS Registry Number:** 52709-85-0  
**Molecular Formula:** C<sub>22</sub>H<sub>27</sub>N  
**Molecular Weight:** 305.462  
**Accurate Mass:** 305.214349  
**Percentage Composition:** C 86.51%; H 8.91%; N 4.59%

>>Variant: 4-Cyano-4'-decylbiphenyl

**Synonym(s):** CB10

**CAS Registry Number:** 59454-35-2  
**Molecular Formula:** C<sub>23</sub>H<sub>29</sub>N  
**Molecular Weight:** 319.489  
**Accurate Mass:** 319.229999  
**Percentage Composition:** C 86.47%; H 9.15%; N 4.38%

>>Variant: 4-Cyano-4'-undecylbiphenyl

**Synonym(s):** CB11‡

**CAS Registry Number:** 65860-74-4  
**Molecular Formula:** C<sub>24</sub>H<sub>31</sub>N  
**Molecular Weight:** 333.516  
**Accurate Mass:** 333.245649  
**Percentage Composition:** C 86.43%; H 9.37%; N 4.20%