

# 2,5-Dichloroaniline

**2,5-Dichloroaniline** is an organic compound with the formula  $C_6H_3Cl_2NH_2$ . One of six isomers of dichloroaniline, it is a colorless solid that is insoluble in water. It is produced by hydrogenation of 1,4-dichloro-2-nitrobenzene.<sup>[1]</sup> It is a precursor to dyes and pigments, e.g., Pigment Yellow 10.<sup>[2]</sup>

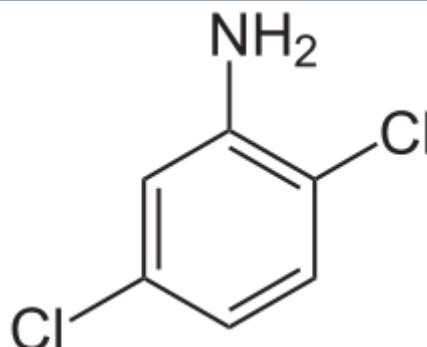


Pigment Yellow 10, a derivative of 1,4-dichloroaniline, is commonly used for yellow road markings in the US.

## References

- Gerald Booth (2007). "Nitro Compounds, Aromatic" in *Ullmann's Encyclopedia of Industrial Chemistry* Wiley-VCH, Weinheim, 2005.
- K. Hunger. W. Herbst "Pigments, Organic" in *Ullmann's Encyclopedia of Industrial Chemistry*, Wiley-VCH, Weinheim, 2012.  
doi:[10.1002/14356007.a20\\_371](https://doi.org/10.1002/14356007.a20_371) ([https://doi.org/10.1002%2F14356007.a20\\_371](https://doi.org/10.1002%2F14356007.a20_371))

## 2,5-Dichloroaniline




### Names

Preferred IUPAC name  
2,5-Dichloroaniline

### Identifiers

CAS Number	95-82-9 ( <a href="http://www.commonchemistry.org/ChemicalDetail.aspx?ref=95-82-9">http://www.commonchemistry.org/ChemicalDetail.aspx?ref=95-82-9</a> )
3D model (JSmol)	Interactive image ( <a href="https://chemapps.stolaf.edu/jmol/jmol.php?model=C1%3DCC%28%3DC%28C%3DC1Cl%29N%29Cl">https://chemapps.stolaf.edu/jmol/jmol.php?model=C1%3DCC%28%3DC%28C%3DC1Cl%29N%29Cl</a> )
ChemSpider	13869655 ( <a href="http://www.chemspider.com/Chemical-Structure.13869655.html">http://www.chemspider.com/Chemical-Structure.13869655.html</a> )
ECHA InfoCard	100.002.233 ( <a href="https://echa.europa.eu/substance-information/-/substanceinfo/100.002.233">https://echa.europa.eu/substance-information/-/substanceinfo/100.002.233</a> )
PubChem CID	7262 ( <a href="https://pubchem.ncbi.nlm.nih.gov/compound/7262">https://pubchem.ncbi.nlm.nih.gov/compound/7262</a> )
CompTox Dashboard (EPA)	DTXSID6024967 ( <a href="https://comptox.epa.gov">https://comptox.epa.gov</a> )

v/dashboard/DTXSI D6024967) 	
<b>InChI</b>	
InChI=1S/C6H5Cl2N/c7-4-1-2-5(8)6(9)3-4/h1-3H,9H2 Key: AVYGCQXNNJPXSS-UHFFFAOYSA-N	
InChI=1/C6H5Cl2N/c7-4-1-2-5(8)6(9)3-4/h1-3H,9H2 Key: AVYGCQXNNJPXSS-UHFFFAOYAK	
<b>SMILES</b>	
C1=CC(=C(C=C1Cl)N)Cl	
<b>Properties</b>	
Chemical formula	C <sub>6</sub> H <sub>5</sub> Cl <sub>2</sub> N
Molar mass	162.01 g·mol <sup>-1</sup>
Melting point	47 to 50 °C (117 to 122 °F; 320 to 323 K)
Boiling point	251 °C (484 °F; 524 K)
Except where otherwise noted, data are given for materials in their standard state (at 25 °C [77 °F], 100 kPa).	
Infobox references	

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