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.[1] It is a precursor to dyes and pigments, e.g., Pigment Yellow 10.[2]

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

References

1. Gerald Booth (2007). "Nitro Compounds, Aromatic" in *Ullmann's Encyclopedia of Industrial Chemistry* Wiley-VCH, Weinheim, 2005.
2. 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%2F14356007.a20_371)

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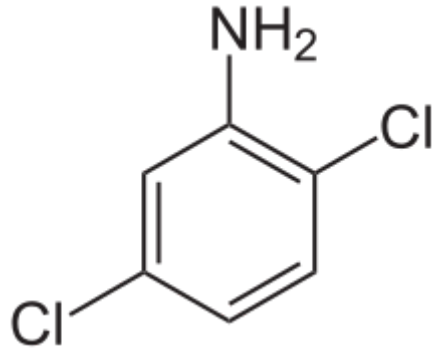

Names	
Preferred IUPAC name 2,5-Dichloroaniline	
Identifiers	
CAS Number	95-82-9 (http://www.commonchemistry.org/ChemicalDetail.aspx?ref=95-82-9)
3D model (JSmol)	Interactive image (https://chemapps.stolaf.edu/jmol/jmol.php?model=C1%3DCC%28%3DC%28C%3DC1Cl%29N%29Cl)
ChemSpider	13869655 (http://www.chemspider.com/Chemical-Structure.13869655.html)
ECHA InfoCard	100.002.233 (https://echa.europa.eu/substance-information/-/substanceinfo/100.002.233)
PubChem CID	7262 (https://pubchem.ncbi.nlm.nih.gov/compound/7262)
CompTox Dashboard (EPA)	DTXSID6024967 (https://comptox.epa.go

	v/dashboard/DTXSID6024967)
InChI	
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	
SMILES	
C1=CC(=C(C=C1Cl)N)Cl	
Properties	
Chemical formula	$C_6H_5Cl_2N$
Molar mass	162.01 g·mol^{-1}
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	