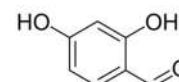




## TECHNICAL DATA SHEET

**Product name:** 2,4-dihydroxybenzaldehyde



### Specifications

Parameters	Specifications	Typical results
Appearance	Faint Beige to Beige to Red Powder	Faint Beige Powder
Assay	NLT 98.0%	98.9 %
Infrared Spectrum	Conforms to Structure	Conforms
Purity (HPLC)	NLT 98.0 %	99.1 %

### Stability and storage:

2,4-Dihydroxybenzaldehyde is generally considered stable under normal conditions, but it can be sensitive to prolonged exposure to moist air, which can cause it to convert into a brown, insoluble amorphous powder. It should be stored in a cool, dry, and well-ventilated place, away from sources of heat and ignition, and incompatible materials.

It is recommended to store it below 30°C and protect it from air and light.

### Application Area:

It's used as a starting material or intermediate in the synthesis of various drugs and pharmaceutical compounds. For example, it's used in the synthesis of ethyl 3,5-dibromo-2,4-dihydroxycinnamate.

It's used as a building block in organic synthesis reactions, such as the synthesis of 2,4-dihydroxybenzaldehyde isonicotinoyl hydrazone, a new fluorescent reagent, and for the regioselective mono-benylation of the compound

It can act as a ligand in the formation of transition metal complexes, which can exhibit enhanced catalytic properties and biological activities compared to the free ligand. These complexes are also explored for their potential in developing new materials. It can be used to create fluorescent reagents for analytical purposes.

2,4-Dihydroxybenzaldehyde is a precursor in the biotransformation synthesis of vanillin, a common flavoring agent.

### General information

CAS No.	: 95-01-2
IUPAC Name	: 2,4-Dihydroxybenzaldehyde
Synonyms	: $\beta$ -Resorcyaldehyde
EC No.	: 202-383-1

### Physical/Chemical properties:

Molecular Formula	: C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>
Molecular Weight	: 138.12
Physical state at 20°C	: Solid
Refractive Index	: 1.4600
Melting Point	: 135 °C
Solubility	: DMSO, Ethyl Acetate, Methanol
Flash Point	: 220°C/22mm

### Hazard classification & labelling:

Single Word : Warning

Pictogram :



Classification according to Regulation (EC) No 1272/2008 : H302,H315,H319,H335

Precautionary statement(s) : P261, P264, P264+P265, P270, P271, P280, P301+P317, P302+P352, P304+P340, P305+P351+P338, P319, P321, P330, P332+P317, P337+P317, P362+P364, P403+P233, P405, P501