



ECO ORGANICS

An ISO 9001 : 2008 Certified Company

- Flavours
- Fragrances
- Ingredients

TECHNICAL DATA SHEET

(R,R)-COBALT SALEN (R-SALEN-CO)

Product Name	(R,R)-Cobalt Salen (R-Salen-Co)
Chemical Name	(R,R)-(-)-N,N'-Bis(3,5-di-tert-butylsalicylidene)-1,2-cyclohexanediaminocobalt(II)
Synonyms	(R,R)-Co(salen); (R,R)-Jacobsen HKR Catalyst; R-Salen-Co
CAS No.	176763-62-5
MDL No.	MFCD01631277
Molecular Formula	C ₃₆ H ₅₂ CoN ₂ O ₂
Molecular Weight	603.76 g/mol
Status	Synthetic
Chirality	(R,R)-configuration, optically active (-); derived from (1R,2R)-1,2-cyclohexanediamine
Appearance	Red-brown to dark red crystalline powder
Assay (Purity)	Min. 97.0% (typical commercial grade, by HPLC)
Enantiomeric Purity	Min. 98.0% ee (typical, by chiral HPLC)
Melting / Decomposition Point	Greater than 350°C (literature)
Solubility	Practically insoluble in water; soluble in dichloromethane, toluene, THF, and other common organic solvents
Moisture / Loss on Drying	Max. 1.0% (typical)
Storage Condition	Store in a tightly sealed container, in a cool, dry place, protected from moisture. Storage under inert atmosphere (nitrogen/argon) recommended to preserve catalytic activity
Packing	As per customer requirement – typically supplied in small laboratory/pilot-scale quantities (grams to kilograms)
Application	Chiral catalyst for the hydrolytic kinetic resolution (HKR) of racemic terminal epoxides and enantioselective ring-opening of meso epoxides, widely used in the synthesis of enantiopure epoxides, diols, and chiral pharmaceutical/fine-chemical intermediates. This is a specialised catalyst, not a Flavour & Fragrance ingredient, and is not itself a pharmaceutical/API. Not for pharmaceutical/API use.

Note: Values above reflect typical published data for this material, as no batch-specific test report was supplied at the time of preparation. Please refer to the accompanying Certificate of Analysis (COA) for batch-specific results once available, and verify all values against your own QC data or a manufacturer TDS before relying on them.

Date: 01 September, 2026

Authorized Signatory



ECO ORGANICS

An ISO 9001 : 2008 Certified Company

- Flavours
- Fragrances
- Ingredients

For Eco Organics



Partner

(Company Seal)