



Product Specification

Product Name: COBALT(II) SULFATE Heptahydrate AR

Alternate Name(s) Cobaltous sulfate; bieberite; cobalt sulfate.

Description

Red to reddish-brown powder.

Properties

Chemical Formula:

Molecular Weight: 281.10

Product Code: CA085

CAS No. 10026-24-1

General Information:

Slightly soluble in methanol and ethanol. Stable to 420 °C when anhydrous salt forms. Anhydrous salt is stable to 708 °C. Incompatible with strong oxidisers, acids and tert-butyl hydroperoxide.

Quality Specification

Assay: 20.00% min. (as Co)

Specific Properties and Impurities [Typical levels]:

Melting Point	Loses 7H ₂ O @ 420°C
Specific Gravity	2.03
Solubility in Water @ 20°C	260 g/L
pH Value (100 g/L H ₂ O, 20 °C)	3-4
Water insoluble matter	≤ 0.01%
Calcium (Ca)	≤ 0.005%
Chromium (Cr)	≤ 0.005%
Copper (Cu)	≤ 0.005%
Iron (Fe)	≤ 0.05%
Lead (Pb)	≤ 0.005%
Magnesium (Mg)	≤ 0.005%
Molybdenum (Mo)	≤ 0.005%
Nickel (Ni)	≤ 0.1%
Silicon (Si)	≤ 0.01%
Zinc (Zn)	≤ 0.005%

Hazard and Safety Data

UN Group:	III
Class:	9
UN Number:	3077
Hazchem code:	2X
CS MSDS Code:	1CHCC
Poison schedule:	Not Scheduled
Emergency Procedure Guide No.:	47

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