

## CHROMIUM TRIOXIDE

### GENERAL DESCRIPTION AND CHARACTERISTICS

APPEARANCE: DARK RED CRYSTALS OR DARK RED SOLUTION

FORMULA: CrO<sub>3</sub>

FORMULA WEIGHT: 99.9

CAS No.: 01333-82-0

Crystals are very hygroscopic and deliquesce readily in air.

Soluble in water (62% w/w at 20 degrees C) forming a strong acid which is corrosive and oxidizing.

Melting point 196 degrees C, decomposes releasing oxygen with further heating.

### CHROMIUM TRIOXIDE, ACS REAGENT

#### PROPERTIES:

ASSAY 98.0%

#### MAXIMUM LIMITS OF IMPURITIES:

INSOLUBLE MATTER	0.01%
CHLORIDE	0.005%
NITRATE	0.05%
SULFATE	0.005%
SODIUM	0.2%
IRON, ALUMINUM, BARIUM	0.03%

### CHROMIUM TRIOXIDE, TECHNICAL

#### PROPERTIES:

ASSAY 98.0%

#### MAXIMUM LIMITS OF IMPURITIES:

SULFATE, as SO <sub>4</sub>	0.15%
CHLORIDE, as Cl	0.01%
WATER INSOLUBLES	0.01%

### CHROMIC ACID SOLUTION, REAGENT

#### PROPERTIES:

ASSAY 60 ± 2%

#### MAXIMUM LIMITS OF IMPURITIES:

SULFATE, as SO <sub>4</sub>	0.003%
NITRATE	0.03%
IRON, ALUMINUM, BARIUM	0.02%
SODIUM	0.12%
CHLORIDE, as Cl	0.003%
WATER INSOLUBLES	0.006%
SPECIFIC GRAVITY	1.65 to 1.71

### CHROMIC ACID SOLUTION, LOW SODIUM

#### PROPERTIES:

Assay 60 ± 2%

#### MAXIMUM LIMITS OF IMPURITIES:

SULFATE, as SO <sub>4</sub>	0.003%
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NITRATE	0.03%
IRON, ALUMINUM, BARIUM	0.02%
SODIUM	0.0002%
CHLORIDE, as Cl	0.003%
WATER INSOLUBLES	0.006%
SPECIFIC GRAVITY	1.65 to 1.71