



>>**Entry Name: Iron(II) perchlorate**

Synonym(s): Ferrous perchlorate

CAS Registry Number: 13933-23-8

Related CAS Registry Numbers(s): 15305-57-4

$\text{Fe}(\text{ClO}_4)_2$

Molecular Formula: Cl_2FeO_8

Molecular Weight: 254.748

Accurate Mass: 253.831963

Percentage Composition: Cl 27.83%; Fe 21.92%; O 50.24%

>>**Derivative:** Hexahydrate

Synonym(s): Iron(II) perchlorate hexahydrate. Hexaaquairon(II) perchlorate

CAS Registry Number: 13520-69-9

Source/Synthesis: Prepd. from FeS + aq. HClO_4

Physical Description: Green cryst. $+6\text{H}_2\text{O}$ (H_2O). Stable in air

Solubility: V. sol. H_2O

References:

Lindstrand, F., *Z. Anorg. Allg. Chem.*, 1936, **230**, 187, (*synth*)

Ross, S.D., *Spectrochim. Acta*, 1962, **18**, 225, (*ir, hydrate*)

Wayland, B.B. *et al.*, *Inorg. Chem.*, 1966, **5**, 54, (*pmr, hydrate*)