

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL:

USAN	FERUMOXYTOL
PRONUNCIATION	fer yoo mox' i tole
THERAPEUTIC CLAIMS	diagnostic aid (magnetic resonance imaging (MRI)); treatment of iron deficiency

CHEMICAL NAME

polyglucose sorbitol carboxymethyl ether-coated non-stoichiometric magnetite

CHEMICAL DESCRIPTION

Ferumoxytol is a superparamagnetic iron oxide that is coated with a low molecular weight semi-synthetic carbohydrate, polyglucose sorbitol carboxymethyl ether. The iron oxide is a superparamagnetic form of non-stoichiometric magnetite with crystal size of 6.2 to 7.3 nm. In solution, the colloidal particle of ferumoxytol has a Stokes diameter of 18-20 nm.

MOLECULAR FORMULA	approx. $\text{FeO}_{1.49}$; coating $\text{C}_{398}\text{H}_{646}\text{O}_{337}$
MOLECULAR WEIGHT	approx. 308,000
TRADEMARK	Unknown as yet
MANUFACTURER	Advanced Magnetics, Inc.
CODE DESIGNATION	Code 7228
<u>CAS</u> REGISTRY NUMBER	1309-38-2