

# triiron tetraoxide

<b>Other names:</b>	Iron(ii,iii) oxide ferrosoferric oxide iron oxide (Fe <sub>3</sub> O <sub>4</sub> )
<b>Inchi:</b>	InChI=1S/3Fe.4O/q+2;2*+3;4*-2
<b>InchiKey:</b>	WTFXARWRTYJXII-UHFFFAOYSA-N
<b>Formula:</b>	Fe <sub>3</sub> O <sub>4</sub>
<b>SMILES:</b>	[Fe+2].[Fe+3].[Fe+3].[O-2].[O-2].[O-2].[O-2]
<b>Mol. weight [g/mol]:</b>	231.53
<b>CAS:</b>	1317-61-9

## Physical Properties

Property code	Value	Unit	Source
ea	2.56 ± 0.06	eV	NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1317619&Units=SI>

**A method for determination of reaction enthalpy of oxygen carriers for Chemical Looping Combustion - application to ilmenite:** <https://www.doi.org/10.1016/j.tca.2011.06.015>

## Legend

**ea:** Electron affinity

Latest version available from:

<https://www.cheméo.com/cid/33-375-9/triiron-tetraoxide.pdf>

Generated by Cheméo on 2024-08-18 06:35:29.424844777 +0000 UTC m=+2652798.671950123.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.