

Iron(ii,iii) oxide

Other names:	ferrosoferric oxide iron oxide (Fe ₃ O ₄)
Inchi:	InChI=1S/3Fe.4O/q+2;2*+3;4*-2
InchiKey:	WTFXARWRTYJXII-UHFFFAOYSA-N
Formula:	Fe ₃ O ₄
SMILES:	[Fe+2].[Fe+3].[Fe+3].[O-2].[O-2].[O-2].[O-2]
Mol. weight [g/mol]:	231.53

Physical Properties

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

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

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

Legend

ea: Electron affinity

Latest version available from:

<https://www.chemeo.com/cid/33-375-9/Iron-ii-iii-oxide.pdf>

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