

Sulphur Dioxide

CAS No. 007446-09-5 **EC No.** 231-195-2

Alternative names:

Sulphurous acid anhydride, Sulphurous oxide

INEOS Enterprises produce a range of sulphuric acid and related sulphur chemicals at its Runcorn site in the UK.

Sulphur dioxide finds application across the industrial sectors but specifically for metal casting/ mining and purification, water treatment and in the manufacture of bisulphites.

Liquid sulphur dioxide complies with the impurity requirements of EC Drinking Water Directive 65/66, Food Chemicals Codex Vol 3 and BS EN 1019: 2005.

Specifications

Parameter	Units	Lower Limit	Upper Limit
Sulphur Dioxide (SO ₂)	%	99.9	100
Total Acids (Residual Acid & SO ₃) expressed as Sulphuric Acid	ppm w/w	0	100
Residual Acid as Sulphuric Acid	ppm w/w	0	50
Residual Acid as Water	ppm w/w	0	30
Iron (Fe)	ppm w/w	0	2
Residue on Evaporation	ppm w/w	0	50
Antimony (Sb)	ppm w/w	0	0.01
Arsenic (As)	ppm w/w	0	1
Cadmium (Cd)	ppm w/w	0	0.05
Chromium (Cr)	ppm w/w	0	0.01
Copper (Cu)	ppm w/w	0	0.1
Lead (Pb)	ppm w/w	0	0.5
Manganese (Mn)	ppm w/w	0	0.01
Mercury (Hg)	ppm w/w	0	0.01
Nickel (Ni)	ppm w/w	0	0.1

Specification reference: 55391000/REV3

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Specifications (continued)

Parameter	Units	Lower Limit	Upper Limit
Selenium (Se)	ppm w/w	0	0.01
Zinc (Zn)	ppm w/w	0	0.1
Total Heavy Metals expressed as Lead	ppm w/w	0	10

Typical Physical Properties

Parameter	Conditions	Units	Typical Value
Form	-	-	Gas
Colour			Colourless
Odour			Pungent
Boiling point	-	°C	-10.05
Melting point	-	°C	-75.5
Vapour pressure	20°C	Pascals	327100
Density	0°C	g/ml	1.43
Solubility in water	20°C	g/l	114

Health and Safety

Sulphur dioxide is toxic by inhalation and causes severe skin burns and eye damage. Refer to the Material Safety Data Sheet for further information.

Delivery

Sulphur dioxide is supplied in dedicated iso-tanks only.

Enquiries

For further information, please contact your customer service representative.

www.ineosenterprises.com

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