

## OLEUM 20 (104.5% Sulphuric Acid) – HIGH GRADE

**CAS No.** 8014-95-7    **EC No.** 016-019-002-2

**Alternative names:**

Sulphuric acid, fuming.

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

Oleum 20 is a mixture of 100% (w/w) sulphuric acid and 20% (w/w) free sulphur trioxide. It is used as a chemical intermediate in many industrial processes.

### Specifications

Parameter	Units	Lower Limit	Upper Limit
Sulphuric Acid	% w/w	104.3	104.7
Iron (Fe)	ppm w/w	0	25
Oxides of nitrogen (NO <sub>x</sub> )	ppm w/w	0	20
Ammonia (NH <sub>3</sub> )	ppm w/w	0	10
Antimony (Sb)	ppm w/w	0	1
Arsenic (As)	ppm w/w	0	1
Cadmium (Cd)	ppm w/w	0	0.1
Chromium (Cr)	ppm w/w	0	10
Copper (Cu)	ppm w/w	0	0.5
Lead (Pb)	ppm w/w	0	5
Manganese (Mn)	ppm w/w	0	2
Mercury (Hg)	ppm w/w	0	0.01
Nickel (Ni)	ppm w/w	0	5
Selenium (Se)	ppm w/w	0	1
Zinc (Zn)	ppm w/w	0	1
Free Sulphur Trioxide	% w/w	19	21

Specification reference: 55354540/REV2

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## Typical Physical Properties

Parameter	Conditions	Units	Typical Value
Form	-	-	Fuming Liquid
Colour	-	-	Almost colourless to pale yellow
Odour	-	-	Pungent
Boiling point	-	°C	144
Melting point	-	°C	-9.0
Vapour pressure	20 °C	Pascals	240
Density	20 °C	g/ml	1.9
Solubility in water	-	-	Soluble with evolution of heat

## Health and Safety

Sulphuric acid is corrosive and causes severe skin burns and is irritating to the respiratory system. Refer to the Material Safety Data Sheet for further information.

## Delivery

Oleum 20 is supplied in dedicated bulk road tankers only.

## Enquiries

For further information, please contact your customer service representative.

[www.ineosenterprises.com](http://www.ineosenterprises.com)

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