

SIEF Information Letter 1
Synthetic Amorphous Silicic Acid, Aluminium Salt (AS2):
Substance Identification & Sameness

Dear SIEF member

In this letter the Consortium would like to inform you in detail about the Substance Identification & Sameness for

Silicic acid, aluminium salt (AS2), EC # 215-628-2, CAS # 1335-30-4

Substance Name:

- **Silicic acid, aluminium salt**

Aluminatesilicate (CAS 1335-30-4) is a UVCB substance, with a purity of ≥ 95 w% thereof the Silica content is 70-95 w% and the Aluminium oxide content is 5-30 w%

Table 1: Impurities

Impurities	Typical concentration	Remarks
sodium sulphate	$\leq 1\%$	CAS No. 7757-82-6
diiron trioxide	≤ 500 ppm	CAS No. 1309-37-1

Identification:

Silicic acid, aluminium salt (AS2) is predominantly characterised through the following methods of identification in IUCLID 5:

- Amorphous structure: X-ray diffraction(XRD)
X-ray diffraction diagrams of NAS using $\text{CuK}\alpha$ radiation with $\lambda = 0.1542$ nm, show only a broad halo, revealing an X-ray amorphous structure. The detection limit for crystallinity by X-ray is in the order of 0.3% by weight.
- Infrared spectroscopy (IR)
- nuclear magnetic resonance spectroscopy (NMR)

With kind regards

SAS For REACH Consortium representing Silicic acid, aluminium salt

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