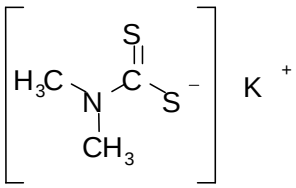
KDDC

Technical Data Sheet



CAS: 128-03-0 Molecular weight: 159.31

Synonyms

Potassium Dimethyldithiocarbamate

Presentation

Yellowish aqueous solution

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Specifications

Specifications	Values	Test methods
Assay (%)	49 - 51	Titration

Packaging

High-density polyethylene drums, 210 litre
Stainless-steel road tankers.

Storage

KDDC solution should be stored in its original container or a stainless-steel tank in a ventilated location.

Keep away from acids to avoid release of CS2.

Do not store >35°C / <15°C for prolonged time.

KDDC solution corrodes copper, zinc and their alloys. On contact with ordinary steel it rapidly forms a black precipitate.

The following plastics are suitable for joints and pipes: HD polyethylene, polypropylene, polytetrafluoro-ethylene (Teflon) and polyamide (Nylon 6).

Our trails have shown that KDDC solutions show no variation in assay after storage in the original pack below 30 °C for 24 months.
KDDC is very toxic to aquatic organisms, release into the environment must be avoided. In the event of accidental spillage, cover the product with an absorbent material and send to a treatment plant for chemical waste. Do not release KDDC solutions into the drains.

Principal applications

- Radical inhibitor in SBR polymerization.
- Accelerator for rubber industry.
- Biocide for paper mills, sugar mills, water treatment, leather industry,...
- Heavy metal scavenger.
- Organic synthesis intermediate

Properties

Property	Value
Vapor pressure (25 °C)	< 2.0 x $10^{(-4)}$ Pa
Partition coefficient	-2.28
Solubility	Miscible with water
Density (20 °C)	1.22 g/ml

Fire risk

KDDC solutions are not combustible at normal ambient temperature. However, under the effect of heat and decomposition of the product they release a gaseous mixture of carbon disulphide and dimethylamine, which are toxic and flammable.

Storage tanks exposed to fire should be cooled by spraying with water. If the product catches fire, the blaze should be fought with water spray, foam, powder or CO_2.

Additional data

See Material Safety Data Sheet.

For further questions please contact our regional sales departments

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