

Technical Data Sheet

KDDC, aqueous solution

Chemical Synonym

Potassium Dimethyldithiocarbamate

Applications

- Water treatment industrial

Product Description

KDDC is used in the following applications:

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

Typical Properties

Property	Typical Value, Units
General	
Appearance	Yellowish aqueous solution
Density @ 20°C	1.22 g/mL
Molecular Weight	159.31
Partition coefficient	-2.28
Solubility	Miscible with water
Vapor Pressure @ 25°C	Pa

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 trials 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.

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