

Product Data Sheet

DNBP and DNBP in ethylbenzene

General Description

DNBP is the most commonly used polymerisation control additive for the distillation of styrene monomer. It is used similarly in divinylbenzene. Used on its own it is an effective retarder that has been proven over many years use. It can also be used in combination with Nufarm stable free radical products for improved performance at reduced cost.

Active Component

2,4-dinitro-sec-butylphenol

CAS: 88-85-7 EEC: 201-861-7

REACH: 01-211-9648115-42-0000

Product Features

- Most widely used polymer control additive in styrene production.
- A retarder that gives protection even under abnormal conditions which can occur in a faulty distillation unit.
- High strength solutions can be supplied in ethylbenzene or it can be supplied as a low melting solid for EB sensitive applications.
- High quality material containing minimal free acid and insoluble material.
- Compatible with stable free radical inhibitors for improved performance. For example *Nufarm's Inhibitor AHM 700* is a stable pre-blended mixture.

Physical Properties

Nufarm DNBP technical (95%+)

Form/Colour: Brown solid

Melting point: 38-42°C

Specific gravity: 1.265 at 45 degC

Water Solubility: 1800 ppm at 22°C

Nufarm DNBP 50/70/75% solution in EB

Form/Colour: Dark Orange-Brown clear liquid, fully miscible with styrene and ethylbenzene

Water content: <0.1% (all specifications)

Specific gravity: 1.042 at 20°C (50%)

Specific gravity: 1.130 at 20°C (70%)

Specific gravity: 1.160 at 20°C (75%)

Flash Point: 34°C (PMCC)

Product Application

Dosing locations and rates are determined according to individual plant design and fouling history. Detailed advice is available from Nufarm's Technical Services Team.

Material Compatibility

The product is compatible with petrochemical processes and equipment

Storage/Handling/Health

Nufarm DNBP Technical is stored as a hot liquid or re-melted by applying heat. Nufarm DNBP 70% and 75% solutions in ethylbenzene remain liquid above about 5°C. Please refer to the Material Safety Data Sheet for information on handling and health.

Availability

All Nufarm DNBP is produced at our ISO 9001 site in the UK. It is available in isotanks.

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