

ALKANOX[®] 240 phosphite

Phosphite antioxidant

Description

ALKANOX[®] 240 phosphite is an organo-phosphite antioxidant that exhibits excellent hydrolytic stability.

Chemical Name

Phenol, 2,4-bis(1,1-dimethylethyl)- phosphite (3:1)

Synonym

Tris(2,4-di-t-butylphenyl) phosphite

CAS Number

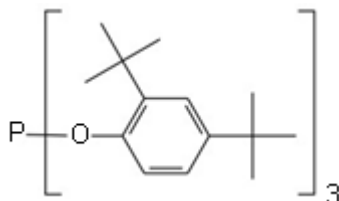
31570-04-4

EINECS-Nr.

250-709-6

Chemical Structure

ALKANOX[®] 240 phosphite



Typical Physical Properties of ALKANOX[®] 240 phosphite

| | |
|-----------------------------------|--|
| Appearance | White, free flowing powder or granules |
| Formula/Molecular Weight (g/mol) | 647 |
| Bulk Density (kg/m ³) | 550 (pw) / 530 (gr) |
| Melting Range [°C] | 182-188 |

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Solubility (g/100g solvent) @ 25°C

| | | | |
|---------------|----|----------|------|
| n-Hexane | 14 | Methanol | <0.5 |
| Ethyl Acetate | 5 | Toluene | 40 |
| Acetone | 1 | Water | <0.1 |
| Chloroform | 58 | | |

Thermogravimetric Analysis (10 mg @ 10 K/minute under N2)

| | | | |
|------------------|-----|-----|-----|
| Weight Loss [%] | 5 | 10 | 25 |
| Temperature [°C] | 239 | 250 | 272 |

Applications

ALKANOX[®] 240 phosphite effectively reduces peroxide induced oxidative degradation of most polymeric substances during processing. The low volatility of **ALKANOX[®] 240 phosphite** allows for use at the high temperatures required for processing thermoplastic polymers. **ALKANOX[®] 240 phosphite** is suitable for use in a multitude of polymers such as polyolefins, polycarbonate, ABS and polyesters.

Regulatory Status

This compound has broad food contact approvals. For details please contact AddivantTM Regulatory Affairs Polymer Additives.

Handling and Storage

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. Unless stated, the shelf life of the product is 2 years when it is properly stored.

For additional handling and toxicological information consult the AddivantTM Material Safety Data Sheet.

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