

Phenothiazine Prills

Propane Phosphonic Acid Anhydride (PPA)

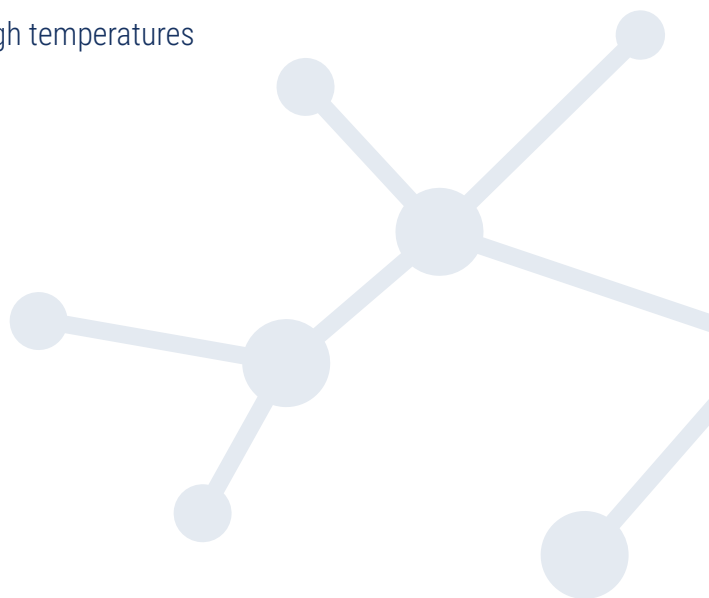
Formula: $C_{12}H_9NS$

CAS Number: 92-84-2

MOL.WT: 199.3 g/mol

Benefits

- Phenothiazine is a radical scavenger that can be used at high temperatures and under oxygen-free conditions.
- Allessa is the world's largest producer.
- Our prills offer optimal processing quality and improved storage and handling.



Applications in the chemical and pharmaceutical industries

- Monomer stabilizer for unsaturated compounds (monomers), protecting them from uncontrolled polymerization. The addition of 200 - 3000 ppm of phenothiazine is sufficient in most cases to inhibit premature polymerization of acrylic acid, meth-acrylic acid, acrylates and vinyl compounds and thereby increases their stability during production and storage.
- Antioxidant, increases lifetime of synthetic rubber (chloroprene) and synthetic lubricating oils in order to improve their durability.
- Building block in pharmaceutical synthesis or as a pure substance in veterinary medicine.



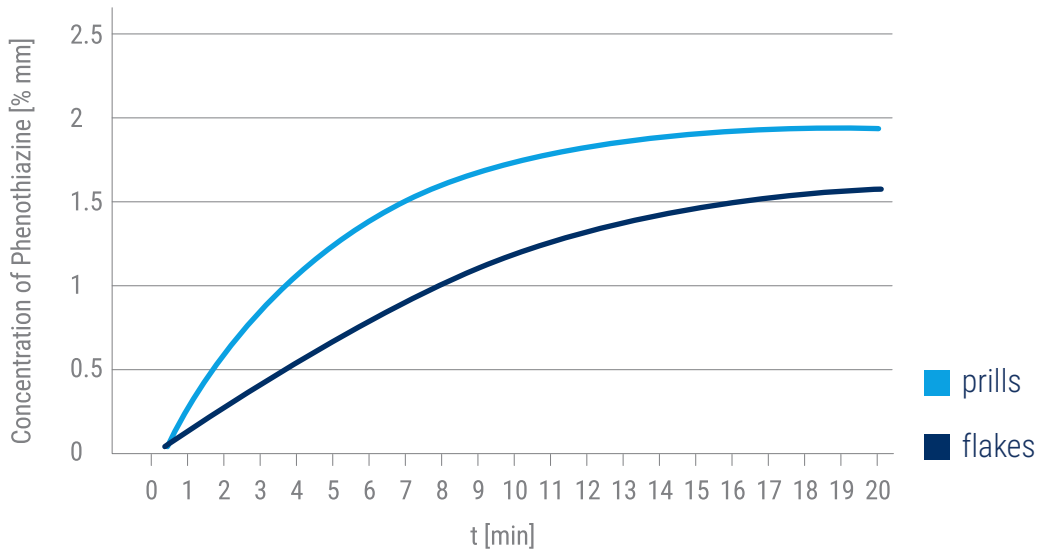
Our prills offer optimal processing quality and improved storage and handling.

Advantages of prills versus flakes

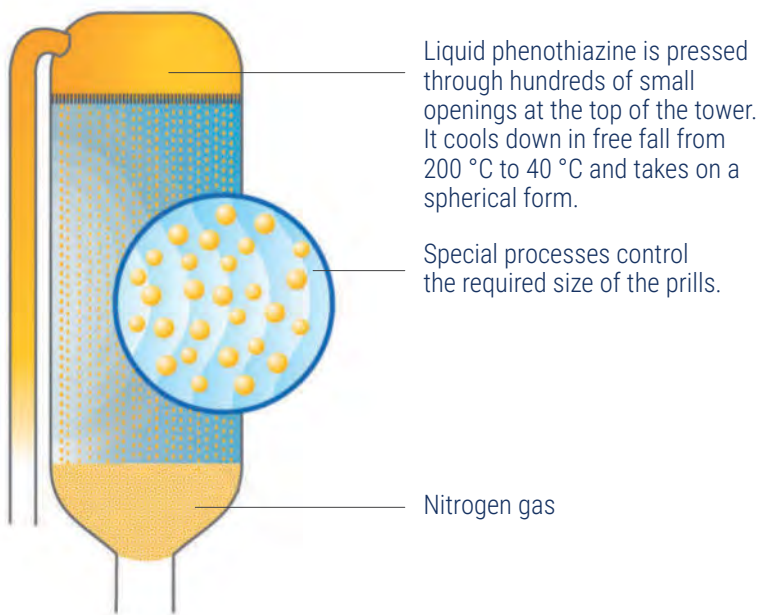
- Uniform particle size gives improved solubility in acrylic acid and acrylate production.
- Greater bulk density liberates more storage space.
- Spherical shape and low dust content significantly reduce sticking of material.
- Less to none sticking properties result in easier handling and a better dosage control while feeding the production unit.
- Significant reduction in dust. Prills leave our production dust free. A small amount of dust is nevertheless caused during transportation due to mechanical abrasion.

Comparison of prills versus flakes

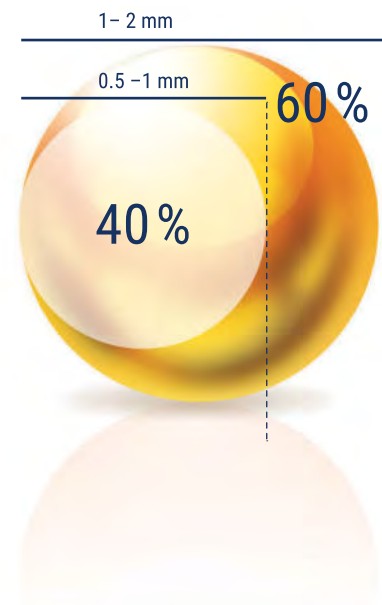
Dissolution rate of phenothiazine in acrylic acid



Phenothiazine in detail



Typical Particle Size Distribution



Specification and Analytical Data

| Properties | Unit | Target Value Target Area | Remarks* |
|------------------------|-------|-----------------------------|----------|
| Appearance | - | yellow to greenish prills | CoA |
| Assay | % a/a | ≥ 99.5 | CoA |
| Diphenylamine | % a/a | ≤ 0.5 | CoA |
| Particle size > 500 µm | % | ≥ 98.0 | CoA |
| Melting point | °C | ≥ 184.0 | TD |
| Heating loss | % | ≤ 0.2 | TD |
| Ash | % | ≤ 0.1 | TD |

*CoA: listed on Certificate of Analysis; each lot is tested.

TD: Technical data: Not routinely examined, therefore no certification possible.



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