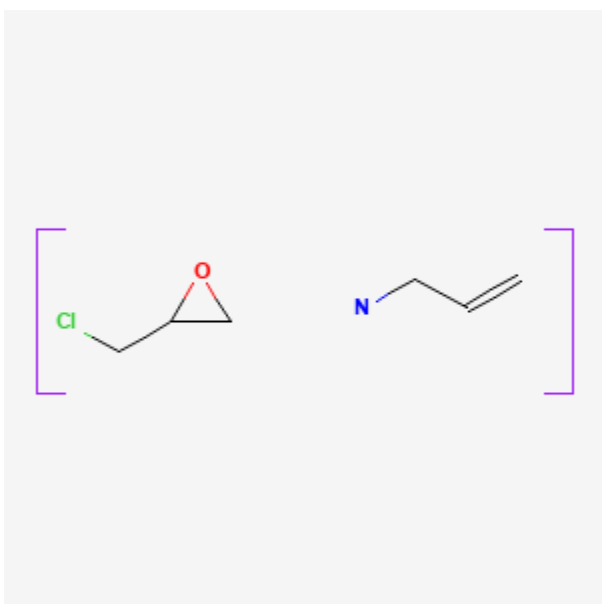




## Sevelamer

Revised: June 21, 2021.

CASRN: 52757-95-6



## Drug Levels and Effects

### Summary of Use during Lactation

Because sevelamer is not orally absorbed, sevelamer does not reach the breastmilk or adversely affect the breastfed infant after maternal administration. A suspension of sevelamer has been added directly to breastmilk to lower the phosphorus concentration of milk. This could be a useful maneuver for breastmilk use in infants with renal impairment; however, clinical use has not been reported. In addition to lowering average phosphorus content by 65% to over 80%, the calcium content of breastmilk was reduced by almost as much and the casein content also decreased somewhat. With sevelamer hydrochloride, the chloride content increased by 60% and the pH changed from 6.8 to 7.8, although pH appears to rebound over time.[1,2] Addition of large amounts of sevelamer to artificial formula also lowers the copper, magnesium, manganese, potassium, sulfur and zinc concentrations by about 20%.[3] Similar reductions might occur with breastmilk.

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## Effects in Breastfed Infants

Relevant published information was not found as of the revision date.

## Effects on Lactation and Breastmilk

Relevant published information was not found as of the revision date.

## References

1. Ferrara E, Lemire J, Reznik VM, et al. Dietary phosphorus reduction by pretreatment of human breast milk with sevelamer. *Pediatr Nephrol.* 2004;19:775–9. PubMed PMID: 15103549.
2. Raaijmakers R, Houkes LM, Schroder CH, et al. Pre-treatment of dairy and breast milk with sevelamer hydrochloride and sevelamer carbonate to reduce phosphate. *Perit Dial Int.* 2013;33:565–72. PubMed PMID: 23636435.
3. Taylor JM, Oladitan L, Carlson S, et al. Renal formulas pretreated with medications alters the nutrient profile. *Pediatr Nephrol.* 2015;30:1815–23. PubMed PMID: 25930981.

## Substance Identification

### Substance Name

Sevelamer

### CAS Registry Number

52757-95-6

### Drug Class

Breast Feeding

Lactation

Chelating Agents