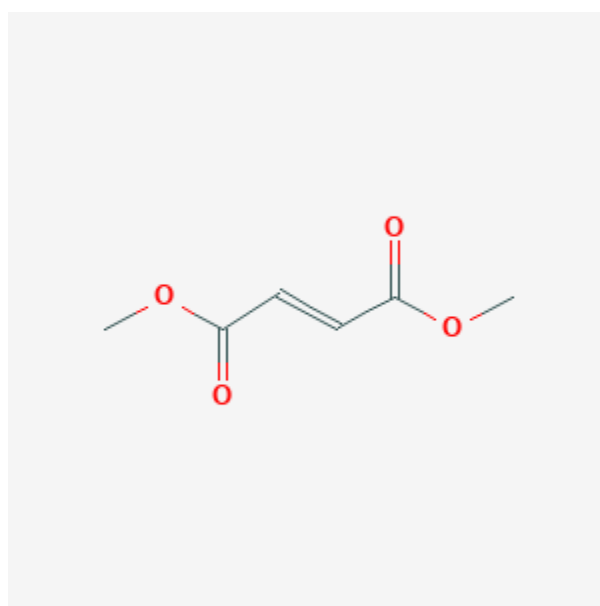




Dimethyl fumarate

Revised: December 3, 2018.

CASRN: 624-49-7



Drug Levels and Effects

Summary of Use during Lactation

There is no published experience with dimethyl fumarate during breastfeeding. Although some authors recommend avoiding breastfeeding during dimethyl fumarate therapy,[1][2] others and the manufacturer do not.[3] Avoiding breastfeeding for 4 to 5 hours after a dose should minimize infant exposure. The infant should be monitored for adequate weight gain, and developmental milestones, especially in younger, exclusively breastfed infants. Some authors also recommend monitoring for vomiting and diarrhea.[3]

Drug Levels

Dimethyl fumarate is rapidly converted to the active drug, monomethyl fumarate, which has a half-life of about 1 hour.

Maternal Levels. Because of the low molecular weight of monomethyl fumarate, milk levels are likely to be approximately equivalent to the maternal blood level. Using average maternal blood levels, the infant would receive an estimated 3.5% of the maternal weight-adjusted dosage.

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

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.

Alternate Drugs to Consider

(Multiple Sclerosis) [Glatiramer](#), [Immune Globulin](#), [Interferon Beta](#)

References

1. Bove R, Alwan S, Friedman JM et al. Management of multiple sclerosis during pregnancy and the reproductive years: a systematic review. *Obstet Gynecol.* 2014;124:1157-68. PubMed PMID: 25415167.
2. Thone J, Thiel S, Gold R et al. Treatment of multiple sclerosis during pregnancy - safety considerations. *Expert Opin Drug Saf.* 2017;16:523-34. PubMed PMID: 28333552.
3. Almas S, Vance J, Baker T et al. Management of multiple sclerosis in the breastfeeding mother. *Mult Scler Int.* 2016;2016:6527458. PubMed PMID: 26966579.

Substance Identification

Substance Name

Dimethyl fumarate

CAS Registry Number

624-49-7

Drug Class

Breast Feeding

Lactation

Dermatologic Agents

Immunosuppressive Agents

Radiation-Sensitizing Agents