Lyrica

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LYRICA

Pregabalin

Dosing:
When treating an adult with Fibromyalgia, the patient is prescribed 75 mg of Lyrica by mouth twice a day. Within the first week the dose may increase to 150 mg by mouth twice times per day. Then dosage may be increased to 225 mg twice per day. Maximum dosage per day is 450 mg.

Molecules per Dose:
75 mg CaH12NO3 (1 g/1000 mg) (1 mol 139.23 g {6.25 x 10^17} molecules 1 mol) 2.8 x 10^15 molecules of CaH12NO3

Tablets per Dose:
75 mg (1 tablet) 75 mg = 1 tablet

Lyrica Functional Groups:
- Lyrica is freely soluble in water

Water Solubility:

Lyrica Chemical Formula:
C8H17NO2

Condensed structural formula of Lyrica:

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Chemical Names:
- (S)-3-(aminomethyl)-5-methylhexanoic acid
- (R)-4-aminomethyl-5-(2-methylpyrrolidin-1-yl)butanoic acid
- (S)-3-(aminomethyl)-5-methylhexanoic acid

Molar Mass:
- 1 mol C (12.01 g/mol) C7 = 96.0 g
- 1 mol H (1.01 g/mol) H7 = 7.0 g
- 1 mol N (14.01 g/mol) N1 = 14.0 g
- 2 mol O (16.00 g/mol) O2 = 32.0 g

Theoretical Value for Molar Mass: 139.23 g/mol

Classification of Lyrica:
- Anticonvulsant
- GABA-agonist
- Analgesic/musclerelaxant
- Antidepressant

Labeled Uses of Lyrica:
Pregabalin is used to treat neuropathic pain associated with diabetic peripheral neuropathy, and adjunctive therapy for adult patients with partial-onset seizures. Pregabalin is also used in the management of post-herpetic neuralgia and fibromyalgia.

Unlabeled Uses of Lyrica:
Pregabalin is used to treat generalized anxiety disorders, social anxiety disorders and moderate pain.

Drug Availability:
- 25 mg, 50 mg, 75 mg, 100 mg, 150 mg, 200 mg, 225 mg, 250 mg capsules

Bibliography:
5. Organic Functional Groups In Chemistry 12th Chemical Supplement Fall 2012_thresheler_ode_412.png