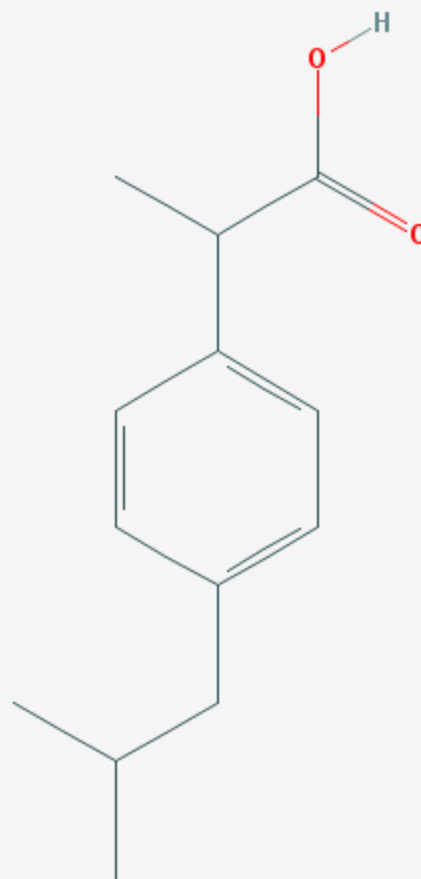


Molecule Monday

A decorative graphic consisting of a solid teal horizontal bar that spans the width of the page. Below this bar, on the right side, there are several horizontal lines of varying lengths and colors, including teal and white, creating a layered, stepped effect.

STRUCTURE



Properties

- Chemical formula: $C_{13}H_{18}O_2$
- IUPAC name:
- 2-(4-Isobutylphenyl)propanoic acid
- Mass: 206.29 g/mol
- Density: 1.03 g/mL
- Melting Point: 75 to 78 °C (167 to 172 °F)
- Boiling Point: 157 °C (315 °F)

Information

- Derived in 1960s
- First NSAID (besides aspirin) to be available over the counter
- Used to relieve pain
 - Headaches, arthritis, fever relief
- Adverse effects
 - nausea, dyspepsia, diarrhea, constipation, gastrointestinal ulceration/bleeding, tinnitus, headache, dizziness, rash, salt and fluid retention, and high blood pressure
- Overdose symptoms:
 - abdominal pain, nausea, vomiting, drowsiness, dizziness, headache, ear ringing, and nystagmus, gastrointestinal bleeding, seizures, metabolic acidosis, high blood levels of potassium, low blood pressure, slow heart rate, fast heart rate, atrial fibrillation, coma, liver dysfunction, acute kidney failure, cyanosis, respiratory depression, and cardiac arrest

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