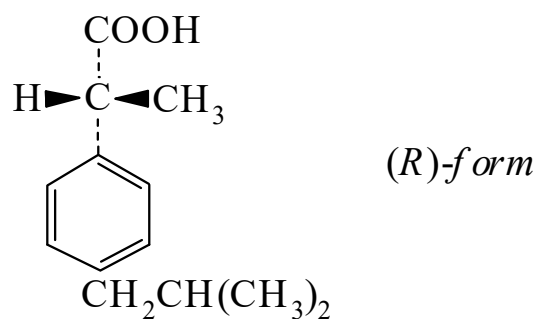




>>Entry Name: **Ibuprofen**, BAN, INN, JAN, USAN

Synonym(s): α -Methyl-4-(2-methylpropyl)benzeneacetic acid, 9CI. 2-[4-(2-Methylpropyl)phenyl]propanoic acid. 2-(4-Isobutylphenyl)propionic acid. Apsifen. Brufen. Codafen. Ebufac. Femafen. Proflex. Lidifen. Lobufen. Motrin. Nurofen. Paxofen. Many other names



CAS Registry Number: 15687-27-1

Related CAS Registry Numbers(s): 61054-06-6 113403-10-4 127701-63-7

Molecular Formula: C₁₃H₁₈O₂

Molecular Weight: 206.284

Accurate Mass: 206.13068

Percentage Composition: C 75.69%; H 8.79%; O 15.51%

Use/Importance: Antiinflammatory agent. Cyclooxygenase inhibitor

Calculated Log P Data: Log P 3.68 (calc)

Aldrich: 28474-2

Sigma: 17271

>>Variant: (*R*)-form

CAS Registry Number: 51146-57-7

Molecular Formula: C₁₃H₁₈O₂

Molecular Weight: 206.284

Accurate Mass: 206.13068

Percentage Composition: C 75.69%; H 8.79%; O 15.51%

Melting Point: Mp 50-52°

Optical Rotation: [α]_D -57

Other: Kiralchem

>>Derivative: Me ester

CAS Registry Number: 81576-57-0

Extra CAS Registry Numbers(s): 61566-34-5

Molecular Formula: C₁₄H₂₀O₂

Molecular Weight: 220.311

Accurate Mass: 220.14633

Percentage Composition: C 76.33%; H 9.15%; O 14.52%

Physical Description: Oil

Optical Rotation: [α]_D²⁰ -49 (c, 1.82 in C₆H₆)

>>Variant: (*S*)-form

Synonym(s): **Dexibuprofen**, INN, USAN. Seractil

CAS Registry Number: 51146-56-6

Molecular Formula: C₁₃H₁₈O₂

Molecular Weight: 206.284

Accurate Mass: 206.13068

Percentage Composition: C 75.69%; H 8.79%; O 15.51%

Physical Description: Cryst. (EtOH)

Development Status: Launched 1994 (Austria)

Melting Point: Mp 50-52°

Optical Rotation: [α]_D +57

Other Data: Pharmacol. active isomer

Aldrich: 37516-0

Fluka: 58635

Other: Kiralchem