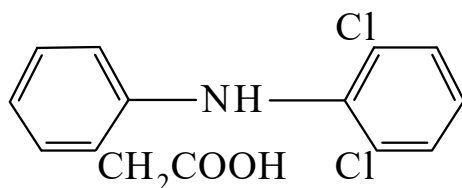




>>>**Entry Name:** Diclofenac, BAN, INN

Synonym(s): 2-[(2,6-Dichlorophenyl)amino]benzeneacetic acid, 9Cl. 2',6'-Dichlorodiphenylamine-2-acetic acid. Arthrotec. Cataflan. Dicloflex. Diclomax. Diclotard. Diclovolt. Diclozip. Digenac. Retard. Voltaren. Many other names



CAS Registry Number: 15307-86-5

Molecular Formula: C₁₄H₁₁Cl₂NO₂

Molecular Weight: 296.152

Accurate Mass: 295.016683

Percentage Composition: C 56.78%; H 3.74%; Cl 23.94%; N 4.73%; O 10.80%

Biological Use/Importance: Antiinflammatory agent. Used in the treatment of osteoarthritis and rheumatoid arthritis

Physical Description: Cryst. (Et₂O/petrol)

Development Status: Marketed drug. Launched 1988. Worldwide 56th best selling prescription drug (as Voltaren) (\$0.80 bn) (Novartis) (2000, Pharma Business)

Melting Point: Mp 156-158°

Calculated Log P Data: Log P 3.03 (calc)

Other Data: Used in combination therapy with Misoprostol [DMQ84-O](#). Dimorphous, two monoclinic forms known

>>>**Derivative:** Na salt

Synonym(s): Diclofenac sodium, JAN, USAN. Voltarol. Feloran. Orthofen. Orthophen. Voltaren

CAS Registry Number: 15307-79-6

Physical Description: Cryst. (H₂O)

Melting Point: Mp 283-285°

Hazard & Toxicity: LD₅₀ (rat, orl) 53 mg/kg. Exp. reprod. and teratogenic effects. Adverse gastrointestinal and other effects reported when used therapeutically

Sigma: D6899

>>>**Derivative:** K salt

Synonym(s): Diclofenac potassium

CAS Registry Number: 15307-81-0

Melting Point: Mp 300-330° (dec.)

>>>**Derivative:** Carboxymethyl ester

Synonym(s): Aceclofenac, BAN, INN. Airtal. Gerbin. Tresquim

CAS Registry Number: 89796-99-6

Molecular Formula: C₁₆H₁₃Cl₂NO₄

Molecular Weight: 354.188

Accurate Mass: 353.022163

Percentage Composition: C 54.26%; H 3.70%; Cl 20.02%; N 3.95%; O 18.07%

Biological Use/Importance: Analgesic, antiinflammatory agent

Development Status: Marketed drug. Launched 1992 (Spain)

Calculated Log P Data: Log P 3.03 (calc)

References: