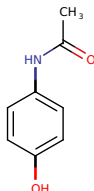











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Identification

Name	Acetaminophen
Accession Number	DB00316 (APRD00252)
Type	Small Molecule
Groups	Approved
Description	Acetaminophen, also known as paracetamol, is commonly used for its analgesic and antipyretic effects. Its therapeutic effects are similar to salicylates, but it lacks anti-inflammatory, antiplatelet, and gastric ulcerative effects.
Structure	 <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>🔍</span> <span>MOL</span> <span>SDF</span> <span>PDB</span> <span>SMILES</span> <span>InChI</span> </div>
Synonyms	<ul style="list-style-type: none"> <li>4-(Acetylamino)phenol</li> <li>4-acetamidophenol</li> <li>4'-hydroxyacetanilide</li> <li>Acenol</li> <li>acetaminofén </li> <li>Acetaminophen</li> <li>acétaminophène </li> <li>APAP</li> <li>N-acetyl-p-aminophenol</li> <li>p-acetamidophenol</li> <li>p-acetaminophenol</li> <li>p-Acetylamino-phenol</li> <li>p-hydroxy-acetanilid</li> <li>p-hydroxyacetanilide</li> <li>p-hydroxyphenolacetamide</li> <li>Paracétamol </li> <li>Paracetamol  </li> <li>Paracetamololum </li> </ul>
External IDs 	NSC-109028 / NSC-3991
Product Ingredients 	Not Available
Approved Prescription	Show <input type="text" value="10"/>  entries

Name	Dosage	Strength	Route	Labeller	Start	End	
Childrens Silapap	Liquid	160 mg/5mL	Oral	bryant ranch prepack	1994-09-05	Not applicable	
Ofirmev	Solution	10 mg	Intravenous	Cadence Pharmaceuticals, Inc.	Not applicable	Not applicable	
Ofirmev	Injection, solution	10 mg/mL	Intravenous	Mallinckrodt Hospital Products Inc.	2010-11-08	Not applicable	
Ofirmev	Injection, solution	10 mg/mL	Intravenous	Cardinal Health	2010-11-08	Not applicable	
Regular Strength Qpap	Tablet	325 mg/1	Oral	bryant ranch prepack	1996-02-01	Not applicable	

Showing 1 to 5 of 5 entries

Previous **1** Next

Approved Generic Prescription Products

Show  entries

Search:

Name	Dosage	Strength	Route	Labeller	Marketing Start	Marketing End	
Acephen	Suppository	325 mg/1	Rectal	Remedy Repack	2015-03-09	2017-03-10	
Acetaminophen	Tablet	325 mg/1	Oral	Remedy Repack	2011-03-09	2015-12-29	
Acetaminophen and Codeine Phosphate	Tablet	300 mg/1	Oral	Remedy Repack	2013-04-04	2017-01-20	
Good Neighbor Pharmacy Pain Relief	Tablet, film coated, extended release	650 mg/1	Oral	bryant ranch prepack	2008-11-03	Not applicable	

Showing 1 to 4 of 4 entries

Previous **1** Next

Approved Over the Counter Products

Show  entries

Search:

Name	Dosage	Strength	Route	Labeller	Marketing Start	Marketing End	
222 AF Extra Strength Caplet (500mg)	Tablet	500 mg	Oral	Merck Frosst Canada & Cie, Merck Frosst Canada & Co.	1992-12-31	1997-08-14	
222 AF Regular Strength Caplet (325mg)	Tablet	325 mg	Oral	Merck Frosst Canada & Cie, Merck Frosst Canada & Co.	1992-12-31	1997-08-14	
222af Extra Strength 500mg	Tablet	500 mg	Oral	Merck Frosst Canada & Cie, Merck Frosst Canada & Co.	1978-12-31	1997-08-14	
222af Regular Strength 325mg	Tablet	325 mg	Oral	Merck Frosst Canada & Cie, Merck Frosst Canada & Co.	1977-12-31	1997-08-14	
7 Select Acetaminophen	Tablet	500 mg/1	Oral	7 Eleven	2014-05-14	Not applicable	
7 Select Childrens Pain Relief	Suspension	160 mg/5mL	Oral	7 Eleven	2014-08-13	Not applicable	
8 Hour Pain Relief	Tablet, film	650 mg/1	Oral	Hyge	2005-09-23	Not	

8 Hour Pain Relief	Tablet, film coated, extended release	650 mg/1	Oral	Cvs Health	2008-08-27	Not applicable	
A.F. Anacin Tablets 325mg	Tablet	325 mg	Oral	Whitehall Robins Inc.	1994-12-31	1997-08-07	
A.F.anacin Extra Strength Tablets	Tablet	500 mg	Oral	Whitehall Robins Inc.	1994-12-31	1998-07-29	

Showing 1 to 10 of 1,721 entries

Previous **1** 2 3 4 5 ... 173 Next

Unapproved/Other Products

Show  entries

Search:

Name	Dosage	Strength	Route	Labeller	Marketing Start	Marketing End	
Acetaminophen	Tablet	325 mg/1	Oral	Cardinal Health	2011-06-02	Not applicable	
Acetaminophen	Tablet	500 mg/1	Oral	Cardinal Health	2011-06-02	Not applicable	
Acetaminophen	Tablet	500 mg/1	Oral	Cardinal Health	2011-06-02	Not applicable	
Acetaminophen	Tablet	325 mg/1	Oral	Cardinal Health	2011-06-02	Not applicable	
Extra Strength Mapap	Tablet	500 mg/1	Oral	Mc Kesson Contract Packaging	2011-12-20	Not applicable	
Mapap	Tablet	325 mg/1	Oral	Mc Kesson Contract Packaging	2011-08-29	Not applicable	

Showing 1 to 6 of 6 entries

Previous **1** Next

International Brands

Show  entries

Search:

Name	Company
Acamol	Teva
Aceta Elixir	Not Available
Aceta Tablets	Not Available
Acetalgin	Not Available
Actamin	Not Available
Actimol	Not Available
Algotropyl	Not Available
Alvedon	Not Available
Aminofen	Not Available
Anacin-3	Not Available

Showing 1 to 10 of 44 entries

Previous **1** 2 3 4 5 Next

Brand mixtures

Show  entries

Search:

Name	Labeller	Ingredients
------	----------	-------------

10 Person Ansi	Genuine First Aid	<b>Acetaminophen</b> / Acetylsalicylic acid / Bacitracin / Benzalkonium / Benzocaine / Ethanol / Ibuprofen / Lidocaine / Neomycin / Polymyxin B Sulfate / Water
25 Person Ansi	Genuine First Aid	<b>Acetaminophen</b> / Acetylsalicylic acid / Bacitracin / Benzalkonium / Benzocaine / Ethanol / Ibuprofen / Isopropyl Alcohol / Lidocaine / Neomycin / Polymyxin B Sulfate / Water
50 Person Ansi	Genuine First Aid	<b>Acetaminophen</b> / Acetylsalicylic acid / Bacitracin / Benzalkonium / Benzocaine / Ethanol / Ibuprofen / Isopropyl Alcohol / Lidocaine / Neomycin / Polymyxin B Sulfate / Water
7 Select Day Time Relief	7 Eleven	<b>Acetaminophen</b> / Dextromethorphan / Phenylephrine
7 Select Migraine Formula	7 Eleven	<b>Acetaminophen</b> / Acetylsalicylic acid / Caffeine
7 Select Night Time Relief	7 Eleven	<b>Acetaminophen</b> / Dextromethorphan / Doxylamine
7 Select Night Time Severe Cold Cough and Flu	7 Eleven	<b>Acetaminophen</b> / Diphenhydramine / Phenylephrine
7 Select Night Time Severe Cold, Cough and Flu	7 Eleven	<b>Acetaminophen</b> / Diphenhydramine / Phenylephrine
7 Select Pain Relief PM	7 Eleven	<b>Acetaminophen</b> / Diphenhydramine

Showing 1 to 10 of 2,605 entries

Categories

- [Acetanilides](#)
- [Acetates](#)
- [Acids, Acyclic](#)
- [Amides](#)
- [Analgesics](#)
- [Analgesics, Non-Narcotic](#)
- [Anilides](#)
- [Antipyretics](#)
- [Central Nervous System Agents](#)

- Cytochrome P-450 CYP2C8 Substrates
- Cytochrome P-450 CYP2C9 Substrates
- Cytochrome P-450 CYP2D6 Substrates
- Cytochrome P-450 CYP2E1 Substrates
- Cytochrome P-450 CYP3A Inducers
- Cytochrome P-450 CYP3A Inhibitors
- Cytochrome P-450 CYP3A4 Substrates
- Fatty Acids
- Fatty Acids, Volatile
- Lipids
- Methemoglobinemia Associated Agents
- Nervous System
- P-glycoprotein/ABCB1 Inhibitors
- P-glycoprotein/ABCB1 Substrates
- Peripheral Nervous System Agents
- Sensory System Agents

UNII	362O9ITL9D
CAS number	103-90-2
Weight	Average: 151.1626 Monoisotopic: 151.063328537
Chemical Formula	C <sub>8</sub> H <sub>9</sub> NO <sub>2</sub>
InChI Key	RZVAJINKPMORJF-UHFFFAOYSA-N
InChI	InChI=1S/C8H9NO2/c1-6(10)9-7-2-4-8(11)5-3-7/h2-5,11H,1H3,(H,9,10)
IUPAC Name	N-(4-hydroxyphenyl)acetamide
SMILES	CC(=O)NC1=CC=C(O)C=C1

**Pharmacology**

**Indication** For temporary relief of fever, minor aches, and pains.

- Structured Indications**
- Fevers
  - Pain

**Pharmacodynamics** Acetaminophen (USAN) or Paracetamol (INN) is a widely used analgesic and antipyretic drug that is used for the relief of fever, headaches, and other minor aches and pains. It is a major ingredient in numerous cold and flu medications and many prescription analgesics. It is extremely safe in standard doses, but because of its wide availability, deliberate or accidental overdoses are not uncommon. Acetaminophen, unlike other common analgesics such as aspirin and ibuprofen, has no anti-inflammatory properties or effects on platelet function, and it is not a member of the class of drugs known as non-steroidal anti-inflammatory drugs or NSAIDs. At therapeutic doses acetaminophen does not irritate the lining of the stomach nor affect blood coagulation, kidney function, or the fetal ductus arteriosus (as NSAIDs can). Like NSAIDs and unlike opioid analgesics, acetaminophen does not cause euphoria or alter mood in any way. Acetaminophen and NSAIDs have the benefit of being completely free of problems with addiction, dependence, tolerance and withdrawal. Acetaminophen is used on its own or in combination with pseudoephedrine, dextromethorphan, chlorpheniramine, diphenhydramine, doxylamine, codeine, hydrocodone, or oxycodone.

**Mechanism of action** Acetaminophen is thought to act primarily in the CNS, increasing the pain threshold by inhibiting both isoforms of cyclooxygenase, COX-1, COX-2, and COX-3 enzymes involved in prostaglandin (PG) synthesis. Unlike NSAIDs, acetaminophen does not inhibit cyclooxygenase in peripheral tissues and, thus, has no peripheral anti-inflammatory effects. While aspirin acts as an irreversible inhibitor of COX and directly blocks the enzyme's active site, studies have found that acetaminophen indirectly blocks COX, and that this blockade is ineffective in the presence of peroxides. This might explain why acetaminophen is effective in the central nervous system and in endothelial cells but not in platelets and immune cells which have high levels of peroxides. Studies also report data suggesting that acetaminophen selectively blocks a variant of the COX enzyme that is different from the known variants COX-1 and COX-2. This enzyme is now referred to as COX-3. Its exact mechanism of action is still poorly understood, but future research may provide further insight into how it works. The antipyretic properties of acetaminophen are likely due to direct effects on the heat-regulating centres of the hypothalamus resulting in peripheral vasodilation, sweating and hence heat dissipation.

Target	Kind	Pharmacological action	Actions	Organism	UniProt ID	
Prostaglandin G/H synthase 1	Protein	yes	inhibitor	Human	P23219	<a href="#">details</a>
Prostaglandin G/H synthase 2	Protein	yes	inhibitor	Human	P35354	<a href="#">details</a>

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