

Aspirin



KIMYAGARAN
Emrooz
Chemical Industries Co.

Technical Data Sheet



Acetaminophen

Chemical Name:

Acetylsalicylic acid, 2-Acetoxybenzoic acid

Trade Name:

Aspirin

Introduction:

Aspirin or acetylsalicylic acid is a common painkiller applied for wide varieties of aches and pains such as muscle aches, toothache, headache, sprain, strain, period pain and long-term conditions, such as arthritis and migraine. Aspirin is known as a nonsteroidal anti-inflammatory drug (NSAID).

General Applications:

This product can also be used for treatment of cold and “flue like” symptoms such as fever. Sometimes, this compound is found as a combination with other ingredients in some cold and flu remedies. It may also be used to reduce swelling in conditions such as arthritis.

Aspirin is also recognized as a blood thinner. The daily use of low-dose aspirin can suppress the risk of cardiovascular events in people with a high risk. However, it is not safe for everyone and it must be used under supervision of a physician.

It exists not only as a synthetic product but also a compound found in plants such as the willow tree and myrtle.

Safety, Handling & Storage:

Full information on the safety, handling and storage of Aspirin is available in the corresponding Material Safety Data Sheet ([MSDS](#)).



Acetylsalicylic acid, 2-Acetoxybenzoic acid

Trade Name: **Aspirin**

Specification

TEST	STANDARD	Unit	Ref.
Description	White crystals, commonly tabular or needle-like, or white, crystalline powder. Is odorless or has a faint odor. Is stable in dry air; in moist air it gradually hydrolyzes to salicylic and acetic acids.	---	USP43-NF38
Solubility	Freely soluble in alcohol; soluble in chloroform and in ether; sparingly soluble in absolute ether; Slightly soluble in water.	---	USP43-NF38
IR spectra	Spectrum obtained with standard Aspirin	---	USP43-NF38
Loss on drying	NMT 0.5	%	USP43-NF38
Readily Carbonizable Substances	The solution has no more color than Matching Fluid Q	---	USP43-NF38
Residue on Ignition	NMT 0.05	%	USP43-NF38
Substances Insoluble in Sodium carbonate TS	Solution of 500 mg in 10 ml warm sodium carbonate TS is clear	---	USP43-NF38
Chloride	A 25-ml portion of the filtrate shows no more chloride than correspond to 0.1 ml of 0.02 N Hydrochloric Acid	---	USP43-NF38
Sulfate	Not more than 1.25 ml of 0.02 M lead perchlorate is consumed	---	USP43-NF38
Limit Of Free Salicylic Acid	The color in the second tube is not more intense than in the tube containing the salicylic acid	---	USP43-NF38
Assay (on the dried basis)	99.5 – 100.5	%	USP43-NF38
Residual solvents(Acetic Acid)	Max 5000	ppm	USP43-NF38

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