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ANALYSIS OF CHEMICAL CONSTITUENTS AND PHYSICAL PROPERTIES OF ARIVA™

Chemical Constituents

2,4-bis (1,1-dimethylethyl)-phenol
2-cyclohexen-1-one, 4(3-hydroxy-1-butene)
2- Furaldehyde, 5-(hydroxymethyl)-
7-hydroxy-6-methoxy-2H-1-Benzopyran-2-one
3-Pyridylethylketone
4,8,13-Cyclotetradecatriene-1,3-diol, 1,5,9-trimethyl-12-(1-methylethyl)
9,12,15-Octadecatrien-1-ol and 9-Octadecenoic acid, 2,3-dihydroxypropyl ester.
Benzaldehyde
Benzyl alcohol
Butyl Hydroxy Toluene (BHT).
Carvone
Cotinine
Di-(2-ethylhexyl)phthalate
Dihydrocarveol
Diphenyl ethane
Di-tert-Butyl Hydroxy Toluene (BHT)
D-Mannitol
Galactitol/D-Dulcitol
Heptadecane
Hexadecane
Hexadecanoic acid, 2-hydroxy-1-(hydromethyl)ethyl ester.
Jasmone
L-Carvone.
Linoleic acid
Margaric acid.
Menthol
Myosmine.
Myristic acid.
Nicotine
Nicotyrine
Oleic acid
Palmitic acid
Stearic acid
Tripropylene Glycol.
Xylenes

Physical Properties

Appearance and Packaging

	Ariva
Color	Dark Yellow to Brown
Weight	280 mg
Flavor	Mint
Sweetener	Present
Shape	Oval/debossed
Packaging	See through blister with Child Resistance Protection
Dose	No dosage information

Disintegration Properties

	Ariva
Disintegration Time	18 min
Hardness	11 sc

Nicotine Content

Ariva	Tobacco
1.3 mg/tablet	7 mg/cigarette
(4.6 mg/g)	(15.5 mg/g)
Estimated bioavailability=1-1.3mg)	Typical bioavailability=1-1.5mg

Buffering Capacity (BC) and pH

	Ariva	Tobacco
pH	8.4	5.6
BC/tablet	0.9 mmoles/L	-
BC/gm of product	3.2 mmoles/L	4.1 mmoles/L
Absorption implication	Expected efficient oral absorption	Inhalation required for absorption

Polymers

Molecular Weight	1000	3500	4000	20,000	40,000+
Tobacco	Y	Y	Y	Y (major)	N
Ariva	Y	Y	Y	Y (major)	Y

Sugars

	Fructose	Glucose	Sucrose
Tobacco	2.8	1.8	2.7
Ariva	2.7	2.9	1.3