

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in Terminalia chebula

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-----------------|------------|---------|----------|----------------------|--|
| 14 | ARGININE | Fruit | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 5 | ARJUNOLIC-ACID | Fruit | -- | -- | | Lu, P. P., Liu, X. G., Li, X. C., Zhang, D. C., Yokoi, T. 1992. Triterpenes of Terminalia chebula Retz. Chih Wu Hsueh Pao 34 (2): 126-132. |
| 112 | ASCORBIC-ACID | Fruit | 920 | 920 | -0.22728617216267144 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 2 | ASPARAGINE | Fruit | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 1 | BEHENIC-ACID | Seed Oil | -- | -- | | Miglani, B. D., Chawla, A. S. 1974. Chemical Investigation of the Oil of Terminalia chebula. J. Inst. Chem. (Calcutta) 46: 189-. |
| 47 | BETA-SITOSTEROL | Fruit | -- | -- | | Lu, P. P., Liu, X. J., Li, X. G., Wen, J. Q. 1991. Chemical Constituents of Fruits of Terminalia chebula Retz. Shanghai Yike Daxue Xuebao 18 (3): 233-235. |
| 47 | BETA-SITOSTEROL | Bark | -- | -- | | Beri, R. M. 1970. Phytosterol in Some Plant Materials. Indian Oil Soap J. 35: 274-275. |
| 8 | CHEBULAGIC-ACID | Fruit | -- | 258.6 | | |
| 8 | CHEBULAGIC-ACID | Leaf | 2523.8 | 5300 | 1 | |
| 1 | CHEBULANIN | Fruit | -- | -- | | Tokura, K., Kagawa, S. 1993. Anticancer Agents Containing Chebulanin from Terminalia chebula. Patent-Japan Kokai Tokyo Koho-07 138,165: 4 pp. |
| 6 | CHEBULINIC-ACID | Fruit | -- | 11241.3 | | |
| 13 | CORILAGIN | Fruit | 724 | 8500 | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-------------------------|------------|---------|----------|----------------------|---|
| 13 | CORILAGIN | Leaf | -- | 293 | -1 | Lin,T.C.,et al.1990.Tannins and Related Compounds.CII.Structures of Terchebulin, an Ellagitannin Having a Novel Tetraphenylcarboxylic Acid (Terchebulic Acid) and Biogenetically Related Tannins from Terminalia chebula Retz. Chem Pharm Bull 38 11:3004-3008. |
| 5 | DAUCOSTEROL | Fruit | -- | -- | | Lu, P. P., Liu, X. J., Li, X. G., Wen, J. Q. 1991. Chemical Constituents of Fruits of Terminalia chebula Retz. Shanghai Yike Daxue Xuebao 18 (3): 233-235. |
| 51 | ELLAGIC-ACID | Leaf | -- | 379 | -0.6995114391849991 | Lin,T.C.,et al.1990.Tannins and Related Compounds.CII.Structures of Terchebulin, an Ellagitannin Having a Novel Tetraphenylcarboxylic Acid (Terchebulic Acid) and Biogenetically Related Tannins from Terminalia chebula Retz. Chem Pharm Bull 38 11:3004-3008. |
| 51 | ELLAGIC-ACID | Fruit | -- | 690 | -0.49557477046092807 | |
| 8 | FRUCTOSE | Fruit | 10000 | 10000 | -0.7809376482767042 | |
| 62 | GALLIC-ACID | Fruit | -- | 4310 | -0.8577693162343898 | |
| 62 | GALLIC-ACID | Leaf | -- | 53.3 | -0.8698914721339668 | Lin,T.C.,et al.1990.Tannins and Related Compounds.CII.Structures of Terchebulin, an Ellagitannin Having a Novel Tetraphenylcarboxylic Acid (Terchebulic Acid) and Biogenetically Related Tannins from Terminalia chebula Retz. Chem Pharm Bull 38 11:3004-3008. |
| 1 | GALLIC-ACID-ETHYL-ESTER | Fruit | -- | -- | | |
| 7 | GLUCOSE | Fruit | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 22 | ISOQUERCITRIN | Fruit | -- | -- | | Polovyanov, G. G. 1974. Flavonoids from the Fruit of the Yellow Myrobalan Plum. Chem. Nat. Comp. 10 (5): 690-. |
| 27 | LINOLEIC-ACID | Seed Oil | -- | -- | | Miglani, B. D., Chawla, A. S. 1974. Chemical Investigation of the Oil of Terminalia chebula. J. Inst. Chem. (Calcutta) 46: 189-. |

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|----------------|-----------------|------------|---------|----------|---------------------|--|
| 27 | LINOLEIC-ACID | Seed | 80100 | 84800 | -0.1912587968305897 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 2 | MALTOSE | Fruit | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 6 | MASLINIC-ACID | Leaf | -- | 312.5 | 1.3973453443025725 | Singh, C. 1990. 2-alpha-hydroxymicromeric acid, a Pentacyclic Triterpene from Terminalia chebula. Phytochemistry, 29 7: 2348-2350. |
| 18 | OLEIC-ACID | Seed | 200100 | 213000 | 0.7718848508656724 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 18 | OLEIC-ACID | Seed Oil | -- | -- | | Miglani, B. D., Chawla, A. S. 1974. Chemical Investigation of the Oil of Terminalia chebula. J. Inst. Chem. (Calcutta) 46: 189-. |
| 9 | OXALIC-ACID | Bark | -- | -- | | Bharadwaj, K., Chandra, V. 1983. Comparative Incidence of Calcium Oxalate as a Source of Oxalic Acid in Barks of Seven Species of Terminalia. Biol. Mem. 8 1/2: 54-62. |
| 25 | P-COUMARIC-ACID | Plant | -- | -- | | Kim, J. S., Lee, G. D., Kwon, J. H., Yoon, H. S. 1993. Identification of Phenolic Antioxidative Components in Terminalia chebula Retz. Han'guk Nonghwa Hakhoe Chi 36 4: 239-243. |
| 13 | PALMITIC-ACID | Seed Oil | -- | -- | | Miglani, B. D., Chawla, A. S. 1974. Chemical Investigation of the Oil of Terminalia chebula. J. Inst. Chem. (Calcutta) 46: 189-. |
| 13 | PALMITIC-ACID | Fruit | -- | -- | | Lu, P. P., Liu, X. J., Li, X. G., Wen, J. Q. 1991. Chemical Constituents of Fruits of Terminalia chebula Retz. Shanghai Yike Daxue Xuebao 18 (3): 233-235. |
| 24 | PECTIN | Fruit | 2080 | 2080 | -0.6055528056020009 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 4 | PHOSPHORIC-ACID | Fruit | -- | -- | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|-----------------------|-----------------|-------------------|----------------|-----------------|-------------------|---|
| 12 | PUNICALAGIN | Fruit | -- | 131 | | Lin,T.C.,et al.1990.Tannins and Related Compounds.CII.Structures of Terchebulin, an Ellagitannin Having a Novel Tetraphenylcarboxylic Acid (Terchebulic Acid) and Biogenetically Related Tannins from Terminalia chebula Retz. Chem Pharm Bull 38 11:3004-3008. |
| 12 | PUNICALAGIN | Leaf | -- | 51429 | 1 | Lin,T.C.,et al.1990.Tannins and Related Compounds.CII.Structures of Terchebulin, an Ellagitannin Having a Novel Tetraphenylcarboxylic Acid (Terchebulic Acid) and Biogenetically Related Tannins from Terminalia chebula Retz. Chem Pharm Bull 38 11:3004-3008. |
| 7 | PUNICALIN | Leaf | -- | 117 | -1 | Lin,T.C.,et al.1990.Tannins and Related Compounds.CII.Structures of Terchebulin, an Ellagitannin Having a Novel Tetraphenylcarboxylic Acid (Terchebulic Acid) and Biogenetically Related Tannins from Terminalia chebula Retz. Chem Pharm Bull 38 11:3004-3008. |
| 176 | QUERCETIN | Fruit | -- | -- | | Polovyanov, G. G. 1974. Flavonoids from the Fruit of the Yellow Myrobalan Plum. Chem. Nat. Comp. 10 (5): 690-. |
| 1 | QUINIC-ACID | Fruit | 15000 | 15000 | 1.174010563697763 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 87 | RUTIN | Fruit | -- | -- | | Polovyanov, G. G. 1974. Flavonoids from the Fruit of the Yellow Myrobalan Plum. Chem. Nat. Comp. 10 (5): 690-. |
| 1 | SENNOSIDE-A | Fruit | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 14 | SHIKIMIC-ACID | Fruit | 22000 | 22000 | 1 | |
| 11 | SORBITOL | Fruit | -- | -- | | |
| 8 | STEARIC-ACID | Seed Oil | -- | -- | | Miglani, B. D., Chawla, A. S. 1974. Chemical Investigation of the Oil of Terminalia chebula. J. Inst. Chem. (Calcutta) 46: 189-. |
| 7 | SUCCINIC-ACID | Fruit | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

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|-----------------------|-----------------|-------------------|----------------|-----------------|--------------------|--|
| 14 | SUCROSE | Fruit | 10000 | 10000 | -0.675913070766718 | |
| 35 | TANNIN | Fruit | 1090 | 355000 | 2.513227153575772 | |
| 1 | TERCHEBIN | Fruit | -- | -- | | |
| 24 | VANILLIC-ACID | Plant | -- | -- | | Kim, J. S., Lee, G. D., Kwon, J. H., Yoon, H. S. 1993. Identification of Phenolic Antioxidative Components in Terminalia chebula Retz. Han'guk Nonghwa Hakhoe Chi 36 4: 239-243. |
| 3 | XYLOSE | Fruit | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |