Supplementary Material

# Supplementary Tables

Table ‎S1: Resource market analysis

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| --- | --- | --- |
| ***Resource*** | ***Market size (MTPA)*** | ***Market value (billion $)*** |
| Ammonia | 235 (2019)  (Garside 2020) | 55 (2018)  (Reports and Data 2020a) |
| Chlorine | 99 (2020)  (Mordor Intelligence 2020a) | 33.5 (2020)  (Expert Market Research 2020a) |
| Formalin | 45.6 (2020)  (ReportLinker 2020) | 4.0 (2018)  (Ahuja and Rawat 2019) |
| Hydrogen | 70 (2018)  (IEA 2019) | 121 (2020)  (Grand View Research 2021) |
| Methanol | 83.8 (2020)  (Mordor Intelligence 2020b) | 31.8 (2018)  (Grand View Research 2019) |
| Nitric acid | 210 (2019)  (Reports and Data 2020b) | 24 (2019)  (Grand View Research 2020) |
| Nitrogen | 7.9 (liquid N2 in 2016)  (Grand View Research 2017) | 26.1 (2019)  (Research and Markets 2020a) |
| Oxygen | 380 (2019)  (Future Market Insights 2019) | 0.045 (2019)  (Future Market Insights 2019) |
| Soda ash | 52 (2020)  (Garside 2021) | 16 (2018)  (Televisory 2020) |
| Sodium bicarbonate | 7.2 (2019)  (Ciech 2019) | 6.7 (2020)  (Research and Markets 2020b) |
| Sodium chloride | 250 (2020)  (Mordor Intelligence 2020c) | 28.6 (2020)  (Expert Market Research 2020b) |
| Sodium hydroxide | 75.9 (2018)  (BusinessWire 2019) | 29.7 (2019)  (Market Watch 2021) |
| Urea | 188 (2020)  (Expert Market Research 2020c) | 39.7 (2019)  (Reports and Data 2020c) |

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