

Operational Costs Comparison - Expressed in 100% CH2O

| Raw materials & Energy | Unit Cost | fa sil ™ | | Metal Oxide Process | |
|---|-----------|----------------|------------------|---------------------|------------------|
| | [€] | per metric ton | €/ton 100 % CH2O | per metric ton | €/ton 100 % CH20 |
| Methanol (ton) | 300 | 1195 - 1210 kg | 361,5 | 1149 - 1154 kg | 345,0 |
| Process water (m3) | 0,79 | 1,2 | 1,0 | 1,1 | 0,9 |
| Boiler feed water (m ³) | 0,79 | 2,2 | 1,7 | 1,9 | 1,5 |
| Electrical energy (kWh) | 0,10 | 86,5 | 8,6 | 189,2 | 18,9 |
| Cooling water (m ³) | 0,10 | 67,6 | 6,8 | 135,1 | 13,5 |
| Instrument compressed air (Nm3) | 0,02 | 36,8 | 0,7 | 36,8 | 0,7 |
| Catalyst cost [€] | | | 0,4 | | 8,4 |
| Oxidiser catalyst and HTF (Metaloxide Process Only) | | 0 | 0 | | 1,8 |
| Excess Steam value (€/ton) | 25 | -2162 | -54,1 | -1892 | -47,3 |
| Total costs€ / ton | | 12 | 326,7 | | 343,4 |

The methanol price is volatile but on average 300 Euro/ton is historically a good figure to use for feasibility studies. Below you can see the operational/manufacturing cost as a function of the methanol price.