**Application 2 The composition of volatile substances in polypropylene powder**

**The composition of volatile substances in polypropylene powder**

**Quantity 0.2 wt. % of the powder**

|  |  |
| --- | --- |
| Sample:  Powder weight 2 g, Т=140 °С,  Heating time =30 min,  Vsample=10 ml | Chromatograph  Crystal 5000.2 |
| Component: | mass fraction, % |
| nitrogen |  |
| ethylene | 0,0031 |
| ethane | 0,0049 |
| propene | **7,3556** |
| propane | 1,0155 |
| n-butane | 0,0033 |
| n-hexane | 0,9450 |
| 2,2-dimethylpentane | 1,9728 |
| methyl cyclopentane | 1,4493 |
| 2,4-dimethylpentane | 3,0489 |
| 2,2,3-trimethylbutane | 0,3993 |
| 3-acetylpenten-1 | 0,0169 |
| 3,3-dimethylrentan | 3,7736 |
| cyclogexan | 1,2883 |
| 2-methylgexane | 27,3625 |
| 2.3--dimethylpentane | 9,8429 |
| 1,1-dimethylcyclopentane | 0,4035 |
| 3-methylgexane | 27,3625 |
| 1s, 3-dimethylcyclopentane | 0,6316 |
| 1t, 3-dimethylcyclopentane | 0,6176 |
| 3-acetylpentane | 2,5483 |
| 1t, 2-dimethylcyclopentane | 0,7827 |
| n-heptane | 11,0860 |
| ethylcyclopentane | 0,0013 |
| 1c,2-dimethylcyclopentane | 0,1408 |
| methylcyclohexane | 0,9110 |
| toluene | **0,6452** |