**E08 - ENGINE, PROPANE FIRED, UNCONTROLLED**

**CALCULATION METHODS**

Ea = Ua x EF (lbs/1000 gallons)

Eh = Uh (gal/hr) x (1/1000) x EF (lbs/1000 gallons)

**NOTES:**

- Control efficiencies must be included in emission factors since the calculation procedure will not refer to this data.

- There are no current emission factors specified in AP-42 for propane fired engines. Previous factors were identified in the ARB Instructions for the Emission Data System (8/91), Appendix III, Page III-7.

- Trace metal emission factors are assumed to be negligible for propane fuel.

- Trace organic compounds are assumed 100% propane. ARB VOC Speciation Profile 719 (8/91) is for natural gas not propane.

| POLLUTANT | District Emission Factor | REFERENCE | ARB | (UNITS) | COMMENTS |
|---|---|---|---|---|---|
| | (lbs/1000 gal fuel burned) | DOCUMENT | FACTOR | | |
| NOX | 139.00 | See Comments | 139 | (lbs/1000 gal) | ARB "Instructions for the Emission Data System Review & Update Report 8/91". |
| CO | 129.00 | | 129 | | |
| SOX | 0.35 | | 0.35 | | |
| TOG | 83.00 | | 83 | | Assume all TOG and ROG is propane (i.e.; negligible methane, formaldehyde, etc.) |
| ROG | 83.00 | | 83 | | |
| TSP | 5.00 | | 5 | | |
| PM10 | 5.00 | | 5 | | |
| BENZENE | | | | | |
| 1,3-BUTADIENE | | | | | |
| CHLORINE | | | | | |
| ETHYL BENZENE | | | | | |
| FORMALDEHYDE | | | | | |
| HEXANE | | | | | |
| HYDROGEN CHLORIDE | | | | | |
| HYDROGEN SULFIDE | | | | | |
| PROPANE | 83.00 | Not a listed substance | | | Assume all ROG and TOG is propane. |
| TOLUENE | | | | | |
| XYLENES | | | | | |

*Last Updated on 8/24/99*
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