
Changes to legislation: There are outstanding changes not yet made to Regulation (EU) 2015/757 of the European Parliament and of the Council. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

ANNEX I

Methods for monitoring CO₂ emissions**[^{F1}A.CALCULATION OF CO₂ EMISSIONS (ARTICLE 9)**

For the purposes of calculating CO₂ emissions companies shall apply the following formula:

Fuel consumption × emission factor

Fuel consumption shall include fuel consumed by main engines, auxiliary engines, gas turbines, boilers and inert gas generators.

Fuel consumption within ports at berth shall be calculated separately.

The following default values for emission factors for fuels used on board shall be applied:

| Type of fuel | Reference | Emission factor (t-CO ₂ /t-fuel) |
|----------------------------------|---------------------------------|---|
| 1. Diesel/Gas oil | ISO 8217 Grades DMX through DMB | 3,206 |
| 2. Light fuel oil (LFO) | ISO 8217 Grades RMA through RMD | 3,151 |
| 3. Heavy fuel oil (HFO) | ISO 8217 Grades RME through RMK | 3,114 |
| 4. Liquefied petroleum gas (LPG) | Propane | 3,000 |
| | Butane | 3,030 |
| 5. Liquefied natural gas (LNG) | | 2,750 |
| 6. Methanol | | 1,375 |
| 7. Ethanol | | 1,913 |

Appropriate emission factors shall be applied for biofuels, alternative non-fossil fuels and other fuels for which no default values are specified.]

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Changes and effects yet to be applied to the whole legislation item and associated provisions

- [Art. 9\(2\)\(a\)](#) words substituted by [S.I. 2018/1388 reg. 3\(7\)\(b\)](#)