# 1H-Indene-1,2,3-trione

**Other names:** 1,2,3-Indantrione
1,2,3-Triketohydrindene
1H-Indene-1,2,3-trione
Indantrione
**Inchi:** InChI=1S/C9H4O3/c10-7-5-3-1-2-4-6(5)8(11)9(7)12/h1-4H
**InchiKey:** WVZWEMOFSIEEMU-UHFFFAOYSA-N
**Formula:** C9H4O3
**SMILES:** O=c1c(=O)c2ccccc2c1=O
**Mol. weight [g/mol]:** 160.13

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -160.78 | kJ/mol | Cheméo Relay (1.0) |
| hvap | 80.66 | kJ/mol | Cheméo Relay (1.0) |
| ie | 9.10 | eV | NIST Webbook |
| log10ws | -2.21 | | Cheméo Relay (1.0) |
| logp | -0.204 | | Crippen Method |
| mcvol | 107.760 | ml/mol | McGowan Method |
| pc | 3671.11 | kPa | Cheméo Relay (1.0, beta) |
| tb | 564.23 | K | Cheméo Relay (1.0) |
| tc | 840.48 | K | Cheméo Relay (1.0) |
| tf | 447.43 | K | Cheméo Relay (1.0) |
| vc | 0.406 | m3/kmol | Cheméo Relay (1.0) |

# Sources

**Cheméo Relay (1.0):**
**Cheméo Relay (1.0, beta):**
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C938249&Units=SI
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

# Legend

| | |
|---|---|
| **hf:** | Enthalpy of formation at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **ie:** | Ionization energy |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |