# Quinoline, 8-nitro-

**Other names:** 8-Nitroquinoline
**Inchi:** InChI=1S/C9H6N2O2/c12-11(13)8-5-1-3-7-4-2-6-10-9(7)8/h1-6H
**InchiKey:** OQHHSGRZCKGLCY-UHFFFAOYSA-N
**Formula:** C9H6N2O2
**SMILES:** O=[N+]([O-])c1cccc2cccnc12
**Mol. weight [g/mol]:** 174.16
**CAS:** 607-35-2

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hsub | 106.70 ± 0.90 | kJ/mol | NIST Webbook |
| log10ws | -3.69 | | Crippen Method |
| logp | 2.143 | | Crippen Method |
| mcvol | 121.850 | ml/mol | McGowan Method |
| rinpol | 298.46 | | NIST Webbook |
| rinpol | 298.09 | | NIST Webbook |
| rinpol | 298.09 | | NIST Webbook |
| rinpol | 297.78 | | NIST Webbook |
| rinpol | 298.37 | | NIST Webbook |
| tf | 361.65 ± 1.00 | K | NIST Webbook |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| hsubt | 104.30 ± 0.90 | kJ/mol | 345.00 | NIST Webbook |

# Sources

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C607352&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

# Legend

| | |
|---|---|
| **hsub:** | Enthalpy of sublimation at standard conditions |
| **hsubt:** | Enthalpy of sublimation at a given temperature |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **rinpol:** | Non-polar retention indices |
| **tf:** | Normal melting (fusion) point |