# Fluoren-9-one, 2-ethylamino-

**Inchi:** InChI=1S/C15H13NO/c1-2-16-10-7-8-12-11-5-3-4-6-13(11)15(17)14(12)9-10/h3-9,16H,2
**InchiKey:** BQSDZCAYCJKMMP-UHFFFAOYSA-N
**Formula:** C15H13NO
**SMILES:** CCNc1ccc2c(c1)C(=O)c1ccccc1-2
**Mol. weight [g/mol]:** 223.27
**CAS:** 207291-46-1

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 330.81 | kJ/mol | Joback Method |
| hf | 106.95 | kJ/mol | Joback Method |
| hfus | 27.39 | kJ/mol | Joback Method |
| hvap | 66.08 | kJ/mol | Joback Method |
| log10ws | -4.71 | | Crippen Method |
| logp | 3.330 | | Crippen Method |
| mcvol | 175.380 | ml/mol | McGowan Method |
| pc | 2829.33 | kPa | Joback Method |
| tb | 731.76 | K | Joback Method |
| tc | 978.56 | K | Joback Method |
| tf | 499.31 | K | Joback Method |
| vc | 0.675 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 476.49 | J/mol×K | 731.76 | Joback Method |
| cpg | 490.53 | J/mol×K | 772.89 | Joback Method |
| cpg | 503.57 | J/mol×K | 814.03 | Joback Method |
| cpg | 515.70 | J/mol×K | 855.16 | Joback Method |
| cpg | 527.01 | J/mol×K | 896.29 | Joback Method |
| cpg | 537.61 | J/mol×K | 937.42 | Joback Method |
| cpg | 547.58 | J/mol×K | 978.56 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C207291461&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **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 |

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