

Fluoranthene, 2,5-dinitro

| | |
|-----------------------------|--|
| Inchi: | InChI=1S/C16H8N2O4/c19-17(20)10-5-9-6-11(18(21)22)8-15-13-4-2-1-3-12(13)14(7-10) |
| InchiKey: | ZXUTUBIMUQTECM-UHFFFAOYSA-N |
| Formula: | C16H8N2O4 |
| SMILES: | O=[N+]([O-])c1cc2c3c(cc([N+](=O)[O-])cc3c1)-c1cccc1-2 |
| Mol. weight [g/mol]: | 292.25 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 543.02 | kJ/mol | Joback Method |
| hf | 323.31 | kJ/mol | Joback Method |
| hfus | 46.44 | kJ/mol | Joback Method |
| hvap | 93.60 | kJ/mol | Joback Method |
| log10ws | -8.03 | | Crippen Method |
| logp | 4.304 | | Crippen Method |
| mcvol | 193.300 | ml/mol | McGowan Method |
| pc | 3052.41 | kPa | Joback Method |
| rinpol | 472.80 | | NIST Webbook |
| rinpol | 472.80 | | NIST Webbook |
| tb | 965.00 | K | Joback Method |
| tc | 1252.37 | K | Joback Method |
| tf | 738.18 | K | Joback Method |
| vc | 0.783 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 553.72 | J/mol×K | 965.00 | Joback Method |
| cpg | 565.01 | J/mol×K | 1012.90 | Joback Method |
| cpg | 576.59 | J/mol×K | 1060.79 | Joback Method |
| cpg | 588.77 | J/mol×K | 1108.69 | Joback Method |
| cpg | 601.84 | J/mol×K | 1156.58 | Joback Method |
| cpg | 616.09 | J/mol×K | 1204.48 | Joback Method |
| cpg | 631.81 | J/mol×K | 1252.37 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R36949&Units=SI |

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 |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/67-310-3/Fluoranthene-2-5-dinitro.pdf>

Generated by Cheméo on 2024-04-26 14:57:15.966382602 +0000 UTC m=+16432684.886959914.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.