# 3,3'-Dithiobis[2-amino-n-(2-naphthyl)propionamid

**Inchi:** InChI=1S/C26H26N4O2S2/c27-23(25(31)29-21-11-9-17-5-1-3-7-19(17)13-21)15-33-34-1
**InchiKey:** REEVAJUPLLWYBH-UHFFFAOYSA-N
**Formula:** C26H26N4O2S2
**SMILES:** NC(CSSCC(N)C(=O)Nc1ccc2ccccc2c1)C(=O)Nc1ccc2ccccc2c1
**Mol. weight [g/mol]:** 490.64
**CAS:** 4708-24-1

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 702.10 | kJ/mol | Joback Method |
| hf | 274.83 | kJ/mol | Joback Method |
| hfus | 69.44 | kJ/mol | Joback Method |
| hvap | 143.13 | kJ/mol | Joback Method |
| log10ws | -7.82 | | Crippen Method |
| logp | 4.606 | | Crippen Method |
| mcvol | 366.520 | ml/mol | McGowan Method |
| pc | 1930.44 | kPa | Joback Method |
| tb | 1385.38 | K | Joback Method |
| tc | 1696.13 | K | Joback Method |
| tf | 936.56 | K | Joback Method |
| vc | 1.355 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1226.23 | J/mol×K | 1385.38 | Joback Method |
| cpg | 1240.86 | J/mol×K | 1437.17 | Joback Method |
| cpg | 1256.51 | J/mol×K | 1488.96 | Joback Method |
| cpg | 1273.54 | J/mol×K | 1540.75 | Joback Method |
| cpg | 1292.31 | J/mol×K | 1592.54 | Joback Method |
| cpg | 1313.17 | J/mol×K | 1644.33 | Joback Method |
| cpg | 1336.49 | J/mol×K | 1696.13 | Joback Method |

# Sources

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|---|---|
| **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=C4708241&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |