

Phenylthioacetamide, N,N-dihexyl-

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| Inchi: | InChI=1S/C20H33NOS/c1-3-5-7-12-16-21(17-13-8-6-4-2)20(22)18-23-19-14-10-9-11-15- |
| InchiKey: | YFLBMMZUHJDQBH-UHFFFAOYSA-N |
| Formula: | C20H33NOS |
| SMILES: | CCCCCN(CCCCC)C(=O)CSc1ccccc1 |
| Mol. weight [g/mol]: | 335.55 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 244.91 | kJ/mol | Joback Method |
| hf | -222.78 | kJ/mol | Joback Method |
| hfus | 50.35 | kJ/mol | Joback Method |
| hvap | 78.00 | kJ/mol | Joback Method |
| log10ws | -6.00 | | Crippen Method |
| logp | 5.768 | | Crippen Method |
| mcvol | 296.800 | ml/mol | McGowan Method |
| pc | 1342.74 | kPa | Joback Method |
| rinsol | 2538.00 | | NIST Webbook |
| tb | 818.77 | K | Joback Method |
| tc | 1021.73 | K | Joback Method |
| tf | 458.38 | K | Joback Method |
| vc | 1.125 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 903.77 | J/mol×K | 818.77 | Joback Method |
| cpg | 921.52 | J/mol×K | 852.60 | Joback Method |
| cpg | 938.13 | J/mol×K | 886.42 | Joback Method |
| cpg | 953.65 | J/mol×K | 920.25 | Joback Method |
| cpg | 968.14 | J/mol×K | 954.08 | Joback Method |
| cpg | 981.65 | J/mol×K | 987.90 | Joback Method |
| cpg | 994.25 | J/mol×K | 1021.73 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U308160&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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 |
| hvac: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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